

2_Granular-level_Tax_Results

```

name: <unnamed>
log: C:\Users\Public\Documents\Ian Shemilt\Taxes and
Subsidies\taxes1.log
log type: text
opened on: 29 Aug 2012, 17:06:18

```

```

.      foreach var of varlist PEX001- CHL001 {
. 2.      display "----- `var'
-----"
. 3.      signtest a_`var' = b_`var'
. 4.      }
----- PEX001 -----

```

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

```

Ho: median of a_PEX001 - b_PEX001 = 0 vs.
Ha: median of a_PEX001 - b_PEX001 > 0
Pr(#positive >= 1) =
  Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

```

```

Ho: median of a_PEX001 - b_PEX001 = 0 vs.
Ha: median of a_PEX001 - b_PEX001 < 0
Pr(#negative >= 0) =
  Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

```

Two-sided test:

```

Ho: median of a_PEX001 - b_PEX001 = 0 vs.
Ha: median of a_PEX001 - b_PEX001 != 0
Pr(#positive >= 1 or #negative >= 1) =
  min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PEX002 -----

```

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:

```

Ho: median of a_PEX002 - b_PEX002 = 0 vs.
Ha: median of a_PEX002 - b_PEX002 > 0
Pr(#positive >= 3) =
  Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

```

```

Ho: median of a_PEX002 - b_PEX002 = 0 vs.
Ha: median of a_PEX002 - b_PEX002 < 0
Pr(#negative >= 0) =
  Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

```

Two-sided test:

```

Ho: median of a_PEX002 - b_PEX002 = 0 vs.
Ha: median of a_PEX002 - b_PEX002 != 0

```

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Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PEX003 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PEX003 - b_PEX003 = 0 vs.
 Ha: median of a_PEX003 - b_PEX003 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PEX003 - b_PEX003 = 0 vs.
 Ha: median of a_PEX003 - b_PEX003 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PEX003 - b_PEX003 = 0 vs.
 Ha: median of a_PEX003 - b_PEX003 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PEX004 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PEX004 - b_PEX004 = 0 vs.
 Ha: median of a_PEX004 - b_PEX004 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PEX004 - b_PEX004 = 0 vs.
 Ha: median of a_PEX004 - b_PEX004 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PEX004 - b_PEX004 = 0 vs.
 Ha: median of a_PEX004 - b_PEX004 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PEX005 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0

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One-sided tests:

Ho: median of a_PEX005 - b_PEX005 = 0 vs.
 Ha: median of a_PEX005 - b_PEX005 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PEX005 - b_PEX005 = 0 vs.
 Ha: median of a_PEX005 - b_PEX005 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PEX005 - b_PEX005 = 0 vs.
 Ha: median of a_PEX005 - b_PEX005 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PEX006 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PEX006 - b_PEX006 = 0 vs.
 Ha: median of a_PEX006 - b_PEX006 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PEX006 - b_PEX006 = 0 vs.
 Ha: median of a_PEX006 - b_PEX006 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PEX006 - b_PEX006 = 0 vs.
 Ha: median of a_PEX006 - b_PEX006 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PEX007 -----

Sign test

sign	observed	expected
positive	2	2
negative	2	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PEX007 - b_PEX007 = 0 vs.
 Ha: median of a_PEX007 - b_PEX007 > 0
 Pr(#positive >= 2) =
 Binomial(n = 4, x >= 2, p = 0.5) = 0.6875

Ho: median of a_PEX007 - b_PEX007 = 0 vs.
 Ha: median of a_PEX007 - b_PEX007 < 0
 Pr(#negative >= 2) =
 Binomial(n = 4, x >= 2, p = 0.5) = 0.6875

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Two-sided test:

Ho: median of a_PEX007 - b_PEX007 = 0 vs.
 Ha: median of a_PEX007 - b_PEX007 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 4, x >= 2, p = 0.5)) = 1.0000
 ----- PEX008 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PEX008 - b_PEX008 = 0 vs.
 Ha: median of a_PEX008 - b_PEX008 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PEX008 - b_PEX008 = 0 vs.
 Ha: median of a_PEX008 - b_PEX008 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PEX008 - b_PEX008 = 0 vs.
 Ha: median of a_PEX008 - b_PEX008 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PEX009 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PEX009 - b_PEX009 = 0 vs.
 Ha: median of a_PEX009 - b_PEX009 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PEX009 - b_PEX009 = 0 vs.
 Ha: median of a_PEX009 - b_PEX009 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PEX009 - b_PEX009 = 0 vs.
 Ha: median of a_PEX009 - b_PEX009 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN001 -----

Sign test

sign	observed	expected
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positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN001 - b_PIN001 = 0 vs.
 Ha: median of a_PIN001 - b_PIN001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN001 - b_PIN001 = 0 vs.
 Ha: median of a_PIN001 - b_PIN001 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PIN001 - b_PIN001 = 0 vs.
 Ha: median of a_PIN001 - b_PIN001 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN002 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN002 - b_PIN002 = 0 vs.
 Ha: median of a_PIN002 - b_PIN002 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN002 - b_PIN002 = 0 vs.
 Ha: median of a_PIN002 - b_PIN002 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PIN002 - b_PIN002 = 0 vs.
 Ha: median of a_PIN002 - b_PIN002 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN003 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN003 - b_PIN003 = 0 vs.
 Ha: median of a_PIN003 - b_PIN003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PIN003 - b_PIN003 = 0 vs.
 Ha: median of a_PIN003 - b_PIN003 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PIN003 - b_PIN003 = 0 vs.
 Ha: median of a_PIN003 - b_PIN003 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN004 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PIN004 - b_PIN004 = 0 vs.
 Ha: median of a_PIN004 - b_PIN004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PIN004 - b_PIN004 = 0 vs.
 Ha: median of a_PIN004 - b_PIN004 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PIN004 - b_PIN004 = 0 vs.
 Ha: median of a_PIN004 - b_PIN004 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN005 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PIN005 - b_PIN005 = 0 vs.
 Ha: median of a_PIN005 - b_PIN005 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PIN005 - b_PIN005 = 0 vs.
 Ha: median of a_PIN005 - b_PIN005 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PIN005 - b_PIN005 = 0 vs.
 Ha: median of a_PIN005 - b_PIN005 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN006 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN006 - b_PIN006 = 0 vs.
 Ha: median of a_PIN006 - b_PIN006 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN006 - b_PIN006 = 0 vs.
 Ha: median of a_PIN006 - b_PIN006 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PIN006 - b_PIN006 = 0 vs.
 Ha: median of a_PIN006 - b_PIN006 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN007 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN007 - b_PIN007 = 0 vs.
 Ha: median of a_PIN007 - b_PIN007 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN007 - b_PIN007 = 0 vs.
 Ha: median of a_PIN007 - b_PIN007 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PIN007 - b_PIN007 = 0 vs.
 Ha: median of a_PIN007 - b_PIN007 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN008 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN008 - b_PIN008 = 0 vs.

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Ha: median of a_PIN008 - b_PIN008 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN008 - b_PIN008 = 0 vs.
 Ha: median of a_PIN008 - b_PIN008 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PIN008 - b_PIN008 = 0 vs.
 Ha: median of a_PIN008 - b_PIN008 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN009 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PIN009 - b_PIN009 = 0 vs.
 Ha: median of a_PIN009 - b_PIN009 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PIN009 - b_PIN009 = 0 vs.
 Ha: median of a_PIN009 - b_PIN009 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PIN009 - b_PIN009 = 0 vs.
 Ha: median of a_PIN009 - b_PIN009 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN010 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PIN010 - b_PIN010 = 0 vs.
 Ha: median of a_PIN010 - b_PIN010 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PIN010 - b_PIN010 = 0 vs.
 Ha: median of a_PIN010 - b_PIN010 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PIN010 - b_PIN010 = 0 vs.
 Ha: median of a_PIN010 - b_PIN010 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN011 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN011 - b_PIN011 = 0 vs.
 Ha: median of a_PIN011 - b_PIN011 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN011 - b_PIN011 = 0 vs.
 Ha: median of a_PIN011 - b_PIN011 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PIN011 - b_PIN011 = 0 vs.
 Ha: median of a_PIN011 - b_PIN011 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN012 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PIN012 - b_PIN012 = 0 vs.
 Ha: median of a_PIN012 - b_PIN012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN012 - b_PIN012 = 0 vs.
 Ha: median of a_PIN012 - b_PIN012 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PIN012 - b_PIN012 = 0 vs.
 Ha: median of a_PIN012 - b_PIN012 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN013 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PIN013 - b_PIN013 = 0 vs.
 Ha: median of a_PIN013 - b_PIN013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN013 - b_PIN013 = 0 vs.
 Ha: median of a_PIN013 - b_PIN013 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PIN013 - b_PIN013 = 0 vs.
 Ha: median of a_PIN013 - b_PIN013 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PIN014 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PIN014 - b_PIN014 = 0 vs.
 Ha: median of a_PIN014 - b_PIN014 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN014 - b_PIN014 = 0 vs.
 Ha: median of a_PIN014 - b_PIN014 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PIN014 - b_PIN014 = 0 vs.
 Ha: median of a_PIN014 - b_PIN014 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PIN015 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PIN015 - b_PIN015 = 0 vs.
 Ha: median of a_PIN015 - b_PIN015 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN015 - b_PIN015 = 0 vs.
 Ha: median of a_PIN015 - b_PIN015 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PIN015 - b_PIN015 = 0 vs.
 Ha: median of a_PIN015 - b_PIN015 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PIN016 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PIN016 - b_PIN016 = 0 vs.
 Ha: median of a_PIN016 - b_PIN016 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN016 - b_PIN016 = 0 vs.
 Ha: median of a_PIN016 - b_PIN016 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PIN016 - b_PIN016 = 0 vs.
 Ha: median of a_PIN016 - b_PIN016 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PIN017 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PIN017 - b_PIN017 = 0 vs.
 Ha: median of a_PIN017 - b_PIN017 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN017 - b_PIN017 = 0 vs.
 Ha: median of a_PIN017 - b_PIN017 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PIN017 - b_PIN017 = 0 vs.
 Ha: median of a_PIN017 - b_PIN017 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PIN018 -----

Sign test

sign	observed	expected
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positive		0	0	
negative		0	0	
zero		1	1	

all		1	1	

One-sided tests:

Ho: median of a_PIN018 - b_PIN018 = 0 vs.
 Ha: median of a_PIN018 - b_PIN018 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN018 - b_PIN018 = 0 vs.
 Ha: median of a_PIN018 - b_PIN018 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PIN018 - b_PIN018 = 0 vs.
 Ha: median of a_PIN018 - b_PIN018 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PIN019 -----

Sign test

sign		observed	expected
positive		0	0
negative		0	0
zero		1	1

all		1	1

One-sided tests:

Ho: median of a_PIN019 - b_PIN019 = 0 vs.
 Ha: median of a_PIN019 - b_PIN019 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN019 - b_PIN019 = 0 vs.
 Ha: median of a_PIN019 - b_PIN019 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PIN019 - b_PIN019 = 0 vs.
 Ha: median of a_PIN019 - b_PIN019 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PIN020 -----

Sign test

sign		observed	expected
positive		0	0
negative		0	0
zero		1	1

all		1	1

One-sided tests:

Ho: median of a_PIN020 - b_PIN020 = 0 vs.
 Ha: median of a_PIN020 - b_PIN020 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PIN020 - b_PIN020 = 0 vs.
 Ha: median of a_PIN020 - b_PIN020 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PIN020 - b_PIN020 = 0 vs.
 Ha: median of a_PIN020 - b_PIN020 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PIN021 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PIN021 - b_PIN021 = 0 vs.
 Ha: median of a_PIN021 - b_PIN021 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN021 - b_PIN021 = 0 vs.
 Ha: median of a_PIN021 - b_PIN021 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PIN021 - b_PIN021 = 0 vs.
 Ha: median of a_PIN021 - b_PIN021 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PIN022 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PIN022 - b_PIN022 = 0 vs.
 Ha: median of a_PIN022 - b_PIN022 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PIN022 - b_PIN022 = 0 vs.
 Ha: median of a_PIN022 - b_PIN022 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PIN022 - b_PIN022 = 0 vs.
 Ha: median of a_PIN022 - b_PIN022 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL001 -----

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Sign test

sign	observed	expected
positive	1	2
negative	3	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL001 - b_PVOL001 = 0 vs.
 Ha: median of a_PVOL001 - b_PVOL001 > 0
 Pr(#positive >= 1) =
 Binomial(n = 4, x >= 1, p = 0.5) = 0.9375

Ho: median of a_PVOL001 - b_PVOL001 = 0 vs.
 Ha: median of a_PVOL001 - b_PVOL001 < 0
 Pr(#negative >= 3) =
 Binomial(n = 4, x >= 3, p = 0.5) = 0.3125

Two-sided test:

Ho: median of a_PVOL001 - b_PVOL001 = 0 vs.
 Ha: median of a_PVOL001 - b_PVOL001 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 4, x >= 3, p = 0.5)) = 0.6250
 ----- PVOL002 -----

Sign test

sign	observed	expected
positive	2	2.5
negative	3	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a_PVOL002 - b_PVOL002 = 0 vs.
 Ha: median of a_PVOL002 - b_PVOL002 > 0
 Pr(#positive >= 2) =
 Binomial(n = 5, x >= 2, p = 0.5) = 0.8125

Ho: median of a_PVOL002 - b_PVOL002 = 0 vs.
 Ha: median of a_PVOL002 - b_PVOL002 < 0
 Pr(#negative >= 3) =
 Binomial(n = 5, x >= 3, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL002 - b_PVOL002 = 0 vs.
 Ha: median of a_PVOL002 - b_PVOL002 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 5, x >= 3, p = 0.5)) = 1.0000
 ----- PVOL003 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL003 - b_PVOL003 = 0 vs.

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Ha: median of a_PVOL003 - b_PVOL003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL003 - b_PVOL003 = 0 vs.
 Ha: median of a_PVOL003 - b_PVOL003 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_PVOL003 - b_PVOL003 = 0 vs.
 Ha: median of a_PVOL003 - b_PVOL003 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL004 -----

Sign test

sign	observed	expected
positive	0	2.5
negative	5	2.5
zero	0	0
all	5	5

One-sided tests:
 Ho: median of a_PVOL004 - b_PVOL004 = 0 vs.
 Ha: median of a_PVOL004 - b_PVOL004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL004 - b_PVOL004 = 0 vs.
 Ha: median of a_PVOL004 - b_PVOL004 < 0
 Pr(#negative >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Two-sided test:
 Ho: median of a_PVOL004 - b_PVOL004 = 0 vs.
 Ha: median of a_PVOL004 - b_PVOL004 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625
 ----- PVOL005 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL005 - b_PVOL005 = 0 vs.
 Ha: median of a_PVOL005 - b_PVOL005 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL005 - b_PVOL005 = 0 vs.
 Ha: median of a_PVOL005 - b_PVOL005 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL005 - b_PVOL005 = 0 vs.
 Ha: median of a_PVOL005 - b_PVOL005 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL006 -----

Sign test

sign	observed	expected
positive	1	2
negative	3	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL006 - b_PVOL006 = 0 vs.
 Ha: median of a_PVOL006 - b_PVOL006 > 0
 Pr(#positive >= 1) =
 Binomial(n = 4, x >= 1, p = 0.5) = 0.9375

Ho: median of a_PVOL006 - b_PVOL006 = 0 vs.
 Ha: median of a_PVOL006 - b_PVOL006 < 0
 Pr(#negative >= 3) =
 Binomial(n = 4, x >= 3, p = 0.5) = 0.3125

Two-sided test:

Ho: median of a_PVOL006 - b_PVOL006 = 0 vs.
 Ha: median of a_PVOL006 - b_PVOL006 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 4, x >= 3, p = 0.5)) = 0.6250

----- PVOL007 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL007 - b_PVOL007 = 0 vs.
 Ha: median of a_PVOL007 - b_PVOL007 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL007 - b_PVOL007 = 0 vs.
 Ha: median of a_PVOL007 - b_PVOL007 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL007 - b_PVOL007 = 0 vs.
 Ha: median of a_PVOL007 - b_PVOL007 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL008 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL008 - b_PVOL008 = 0 vs.
Ha: median of a_PVOL008 - b_PVOL008 > 0
Pr(#positive >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL008 - b_PVOL008 = 0 vs.
Ha: median of a_PVOL008 - b_PVOL008 < 0
Pr(#negative >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL008 - b_PVOL008 = 0 vs.
Ha: median of a_PVOL008 - b_PVOL008 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL009 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL009 - b_PVOL009 = 0 vs.
Ha: median of a_PVOL009 - b_PVOL009 > 0
Pr(#positive >= 1) =
Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_PVOL009 - b_PVOL009 = 0 vs.
Ha: median of a_PVOL009 - b_PVOL009 < 0
Pr(#negative >= 2) =
Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL009 - b_PVOL009 = 0 vs.
Ha: median of a_PVOL009 - b_PVOL009 != 0
Pr(#positive >= 2 or #negative >= 2) =
min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000

----- PVOL010 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL010 - b_PVOL010 = 0 vs.
Ha: median of a_PVOL010 - b_PVOL010 > 0
Pr(#positive >= 3) =
Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_PVOL010 - b_PVOL010 = 0 vs.
Ha: median of a_PVOL010 - b_PVOL010 < 0
Pr(#negative >= 0) =
Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PVOL010 - b_PVOL010 = 0 vs.
 Ha: median of a_PVOL010 - b_PVOL010 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL011 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL011 - b_PVOL011 = 0 vs.
 Ha: median of a_PVOL011 - b_PVOL011 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_PVOL011 - b_PVOL011 = 0 vs.
 Ha: median of a_PVOL011 - b_PVOL011 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL011 - b_PVOL011 = 0 vs.
 Ha: median of a_PVOL011 - b_PVOL011 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- PVOL012 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL012 - b_PVOL012 = 0 vs.
 Ha: median of a_PVOL012 - b_PVOL012 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_PVOL012 - b_PVOL012 = 0 vs.
 Ha: median of a_PVOL012 - b_PVOL012 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL012 - b_PVOL012 = 0 vs.
 Ha: median of a_PVOL012 - b_PVOL012 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- PVOL013 -----

Sign test

sign	observed	expected
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		2_Granular-level_Tax_Results	
positive		1	1.5
negative		2	1.5
zero		0	0
-----+-----			
all		3	3

One-sided tests:

Ho: median of a_PVOL013 - b_PVOL013 = 0 vs.
 Ha: median of a_PVOL013 - b_PVOL013 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_PVOL013 - b_PVOL013 = 0 vs.
 Ha: median of a_PVOL013 - b_PVOL013 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL013 - b_PVOL013 = 0 vs.
 Ha: median of a_PVOL013 - b_PVOL013 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- PVOL014 -----

Sign test

sign		observed	expected
positive		3	1.5
negative		0	1.5
zero		0	0
-----+-----			
all		3	3

One-sided tests:

Ho: median of a_PVOL014 - b_PVOL014 = 0 vs.
 Ha: median of a_PVOL014 - b_PVOL014 > 0
 Pr(#positive >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_PVOL014 - b_PVOL014 = 0 vs.
 Ha: median of a_PVOL014 - b_PVOL014 < 0
 Pr(#negative >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL014 - b_PVOL014 = 0 vs.
 Ha: median of a_PVOL014 - b_PVOL014 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL015 -----

Sign test

sign		observed	expected
positive		1	1.5
negative		2	1.5
zero		0	0
-----+-----			
all		3	3

One-sided tests:

Ho: median of a_PVOL015 - b_PVOL015 = 0 vs.
 Ha: median of a_PVOL015 - b_PVOL015 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

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Ho: median of a_PVOL015 - b_PVOL015 = 0 vs.
 Ha: median of a_PVOL015 - b_PVOL015 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL015 - b_PVOL015 = 0 vs.
 Ha: median of a_PVOL015 - b_PVOL015 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- PVOL016 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_PVOL016 - b_PVOL016 = 0 vs.
 Ha: median of a_PVOL016 - b_PVOL016 > 0
 Pr(#positive >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_PVOL016 - b_PVOL016 = 0 vs.
 Ha: median of a_PVOL016 - b_PVOL016 < 0
 Pr(#negative >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL016 - b_PVOL016 = 0 vs.
 Ha: median of a_PVOL016 - b_PVOL016 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL017 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_PVOL017 - b_PVOL017 = 0 vs.
 Ha: median of a_PVOL017 - b_PVOL017 > 0
 Pr(#positive >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_PVOL017 - b_PVOL017 = 0 vs.
 Ha: median of a_PVOL017 - b_PVOL017 < 0
 Pr(#negative >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL017 - b_PVOL017 = 0 vs.
 Ha: median of a_PVOL017 - b_PVOL017 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL018 -----

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Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL018 - b_PVOL018 = 0 vs.
 Ha: median of a_PVOL018 - b_PVOL018 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_PVOL018 - b_PVOL018 = 0 vs.
 Ha: median of a_PVOL018 - b_PVOL018 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_PVOL018 - b_PVOL018 = 0 vs.
 Ha: median of a_PVOL018 - b_PVOL018 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- PVOL019 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL019 - b_PVOL019 = 0 vs.
 Ha: median of a_PVOL019 - b_PVOL019 > 0
 Pr(#positive >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_PVOL019 - b_PVOL019 = 0 vs.
 Ha: median of a_PVOL019 - b_PVOL019 < 0
 Pr(#negative >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL019 - b_PVOL019 = 0 vs.
 Ha: median of a_PVOL019 - b_PVOL019 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL020 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL020 - b_PVOL020 = 0 vs.

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Ha: median of a_PVOL020 - b_PVOL020 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL020 - b_PVOL020 = 0 vs.
 Ha: median of a_PVOL020 - b_PVOL020 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL020 - b_PVOL020 = 0 vs.
 Ha: median of a_PVOL020 - b_PVOL020 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL021 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PVOL021 - b_PVOL021 = 0 vs.
 Ha: median of a_PVOL021 - b_PVOL021 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL021 - b_PVOL021 = 0 vs.
 Ha: median of a_PVOL021 - b_PVOL021 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL021 - b_PVOL021 = 0 vs.
 Ha: median of a_PVOL021 - b_PVOL021 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL022 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PVOL022 - b_PVOL022 = 0 vs.
 Ha: median of a_PVOL022 - b_PVOL022 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL022 - b_PVOL022 = 0 vs.
 Ha: median of a_PVOL022 - b_PVOL022 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL022 - b_PVOL022 = 0 vs.
 Ha: median of a_PVOL022 - b_PVOL022 != 0

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Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL023 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL023 - b_PVOL023 = 0 vs.
 Ha: median of a_PVOL023 - b_PVOL023 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL023 - b_PVOL023 = 0 vs.
 Ha: median of a_PVOL023 - b_PVOL023 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL023 - b_PVOL023 = 0 vs.
 Ha: median of a_PVOL023 - b_PVOL023 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL024 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL024 - b_PVOL024 = 0 vs.
 Ha: median of a_PVOL024 - b_PVOL024 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL024 - b_PVOL024 = 0 vs.
 Ha: median of a_PVOL024 - b_PVOL024 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL024 - b_PVOL024 = 0 vs.
 Ha: median of a_PVOL024 - b_PVOL024 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL025 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

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One-sided tests:

Ho: median of a_PVOL025 - b_PVOL025 = 0 vs.
 Ha: median of a_PVOL025 - b_PVOL025 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL025 - b_PVOL025 = 0 vs.
 Ha: median of a_PVOL025 - b_PVOL025 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL025 - b_PVOL025 = 0 vs.
 Ha: median of a_PVOL025 - b_PVOL025 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL026 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL026 - b_PVOL026 = 0 vs.
 Ha: median of a_PVOL026 - b_PVOL026 > 0
 Pr(#positive >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Ho: median of a_PVOL026 - b_PVOL026 = 0 vs.
 Ha: median of a_PVOL026 - b_PVOL026 < 0
 Pr(#negative >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Two-sided test:

Ho: median of a_PVOL026 - b_PVOL026 = 0 vs.
 Ha: median of a_PVOL026 - b_PVOL026 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 2, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL027 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL027 - b_PVOL027 = 0 vs.
 Ha: median of a_PVOL027 - b_PVOL027 > 0
 Pr(#positive >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Ho: median of a_PVOL027 - b_PVOL027 = 0 vs.
 Ha: median of a_PVOL027 - b_PVOL027 < 0
 Pr(#negative >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

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Two-sided test:

Ho: median of a_PVOL027 - b_PVOL027 = 0 vs.
 Ha: median of a_PVOL027 - b_PVOL027 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 2, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL028 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL028 - b_PVOL028 = 0 vs.
 Ha: median of a_PVOL028 - b_PVOL028 > 0
 Pr(#positive >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Ho: median of a_PVOL028 - b_PVOL028 = 0 vs.
 Ha: median of a_PVOL028 - b_PVOL028 < 0
 Pr(#negative >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Two-sided test:

Ho: median of a_PVOL028 - b_PVOL028 = 0 vs.
 Ha: median of a_PVOL028 - b_PVOL028 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 2, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL029 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL029 - b_PVOL029 = 0 vs.
 Ha: median of a_PVOL029 - b_PVOL029 > 0
 Pr(#positive >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Ho: median of a_PVOL029 - b_PVOL029 = 0 vs.
 Ha: median of a_PVOL029 - b_PVOL029 < 0
 Pr(#negative >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Two-sided test:

Ho: median of a_PVOL029 - b_PVOL029 = 0 vs.
 Ha: median of a_PVOL029 - b_PVOL029 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 2, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL030 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	1	1
negative	1	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PVOL030 - b_PVOL030 = 0 vs.
 Ha: median of a_PVOL030 - b_PVOL030 > 0
 Pr(#positive >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Ho: median of a_PVOL030 - b_PVOL030 = 0 vs.
 Ha: median of a_PVOL030 - b_PVOL030 < 0
 Pr(#negative >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Two-sided test:

Ho: median of a_PVOL030 - b_PVOL030 = 0 vs.
 Ha: median of a_PVOL030 - b_PVOL030 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 2, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL031 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PVOL031 - b_PVOL031 = 0 vs.
 Ha: median of a_PVOL031 - b_PVOL031 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL031 - b_PVOL031 = 0 vs.
 Ha: median of a_PVOL031 - b_PVOL031 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL031 - b_PVOL031 = 0 vs.
 Ha: median of a_PVOL031 - b_PVOL031 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL032 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PVOL032 - b_PVOL032 = 0 vs.
 Ha: median of a_PVOL032 - b_PVOL032 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL032 - b_PVOL032 = 0 vs.
 Ha: median of a_PVOL032 - b_PVOL032 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL032 - b_PVOL032 = 0 vs.
 Ha: median of a_PVOL032 - b_PVOL032 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL033 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PVOL033 - b_PVOL033 = 0 vs.
 Ha: median of a_PVOL033 - b_PVOL033 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL033 - b_PVOL033 = 0 vs.
 Ha: median of a_PVOL033 - b_PVOL033 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL033 - b_PVOL033 = 0 vs.
 Ha: median of a_PVOL033 - b_PVOL033 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL034 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PVOL034 - b_PVOL034 = 0 vs.
 Ha: median of a_PVOL034 - b_PVOL034 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL034 - b_PVOL034 = 0 vs.
 Ha: median of a_PVOL034 - b_PVOL034 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL034 - b_PVOL034 = 0 vs.
 Ha: median of a_PVOL034 - b_PVOL034 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL035 -----

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Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL035 - b_PVOL035 = 0 vs.
 Ha: median of a_PVOL035 - b_PVOL035 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL035 - b_PVOL035 = 0 vs.
 Ha: median of a_PVOL035 - b_PVOL035 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL035 - b_PVOL035 = 0 vs.
 Ha: median of a_PVOL035 - b_PVOL035 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL036 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL036 - b_PVOL036 = 0 vs.
 Ha: median of a_PVOL036 - b_PVOL036 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PVOL036 - b_PVOL036 = 0 vs.
 Ha: median of a_PVOL036 - b_PVOL036 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL036 - b_PVOL036 = 0 vs.
 Ha: median of a_PVOL036 - b_PVOL036 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL037 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL037 - b_PVOL037 = 0 vs.

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Ha: median of a_PVOL037 - b_PVOL037 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PVOL037 - b_PVOL037 = 0 vs.
 Ha: median of a_PVOL037 - b_PVOL037 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL037 - b_PVOL037 = 0 vs.
 Ha: median of a_PVOL037 - b_PVOL037 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL038 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PVOL038 - b_PVOL038 = 0 vs.
 Ha: median of a_PVOL038 - b_PVOL038 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL038 - b_PVOL038 = 0 vs.
 Ha: median of a_PVOL038 - b_PVOL038 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL038 - b_PVOL038 = 0 vs.
 Ha: median of a_PVOL038 - b_PVOL038 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL039 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PVOL039 - b_PVOL039 = 0 vs.
 Ha: median of a_PVOL039 - b_PVOL039 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL039 - b_PVOL039 = 0 vs.
 Ha: median of a_PVOL039 - b_PVOL039 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL039 - b_PVOL039 = 0 vs.
 Ha: median of a_PVOL039 - b_PVOL039 != 0

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Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PVOL040 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL040 - b_PVOL040 = 0 vs.
 Ha: median of a_PVOL040 - b_PVOL040 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PVOL040 - b_PVOL040 = 0 vs.
 Ha: median of a_PVOL040 - b_PVOL040 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL040 - b_PVOL040 = 0 vs.
 Ha: median of a_PVOL040 - b_PVOL040 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PVOL041 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL041 - b_PVOL041 = 0 vs.
 Ha: median of a_PVOL041 - b_PVOL041 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL041 - b_PVOL041 = 0 vs.
 Ha: median of a_PVOL041 - b_PVOL041 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL041 - b_PVOL041 = 0 vs.
 Ha: median of a_PVOL041 - b_PVOL041 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PVOL042 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

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One-sided tests:

Ho: median of a_PVOL042 - b_PVOL042 = 0 vs.
 Ha: median of a_PVOL042 - b_PVOL042 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL042 - b_PVOL042 = 0 vs.
 Ha: median of a_PVOL042 - b_PVOL042 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL042 - b_PVOL042 = 0 vs.
 Ha: median of a_PVOL042 - b_PVOL042 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL043 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL043 - b_PVOL043 = 0 vs.
 Ha: median of a_PVOL043 - b_PVOL043 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL043 - b_PVOL043 = 0 vs.
 Ha: median of a_PVOL043 - b_PVOL043 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL043 - b_PVOL043 = 0 vs.
 Ha: median of a_PVOL043 - b_PVOL043 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL044 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL044 - b_PVOL044 = 0 vs.
 Ha: median of a_PVOL044 - b_PVOL044 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL044 - b_PVOL044 = 0 vs.
 Ha: median of a_PVOL044 - b_PVOL044 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

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Two-sided test:

Ho: median of a_PVOL044 - b_PVOL044 = 0 vs.
 Ha: median of a_PVOL044 - b_PVOL044 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL045 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL045 - b_PVOL045 = 0 vs.
 Ha: median of a_PVOL045 - b_PVOL045 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL045 - b_PVOL045 = 0 vs.
 Ha: median of a_PVOL045 - b_PVOL045 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL045 - b_PVOL045 = 0 vs.
 Ha: median of a_PVOL045 - b_PVOL045 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL046 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL046 - b_PVOL046 = 0 vs.
 Ha: median of a_PVOL046 - b_PVOL046 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL046 - b_PVOL046 = 0 vs.
 Ha: median of a_PVOL046 - b_PVOL046 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL046 - b_PVOL046 = 0 vs.
 Ha: median of a_PVOL046 - b_PVOL046 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL047 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	2	1
negative	0	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PVOL047 - b_PVOL047 = 0 vs.
 Ha: median of a_PVOL047 - b_PVOL047 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PVOL047 - b_PVOL047 = 0 vs.
 Ha: median of a_PVOL047 - b_PVOL047 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL047 - b_PVOL047 = 0 vs.
 Ha: median of a_PVOL047 - b_PVOL047 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL048 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PVOL048 - b_PVOL048 = 0 vs.
 Ha: median of a_PVOL048 - b_PVOL048 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL048 - b_PVOL048 = 0 vs.
 Ha: median of a_PVOL048 - b_PVOL048 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL048 - b_PVOL048 = 0 vs.
 Ha: median of a_PVOL048 - b_PVOL048 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL049 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PVOL049 - b_PVOL049 = 0 vs.
 Ha: median of a_PVOL049 - b_PVOL049 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

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Ho: median of a_PVOL049 - b_PVOL049 = 0 vs.
 Ha: median of a_PVOL049 - b_PVOL049 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL049 - b_PVOL049 = 0 vs.
 Ha: median of a_PVOL049 - b_PVOL049 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL050 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL050 - b_PVOL050 = 0 vs.
 Ha: median of a_PVOL050 - b_PVOL050 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL050 - b_PVOL050 = 0 vs.
 Ha: median of a_PVOL050 - b_PVOL050 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL050 - b_PVOL050 = 0 vs.
 Ha: median of a_PVOL050 - b_PVOL050 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL051 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL051 - b_PVOL051 = 0 vs.
 Ha: median of a_PVOL051 - b_PVOL051 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL051 - b_PVOL051 = 0 vs.
 Ha: median of a_PVOL051 - b_PVOL051 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL051 - b_PVOL051 = 0 vs.
 Ha: median of a_PVOL051 - b_PVOL051 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL052 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL052 - b_PVOL052 = 0 vs.
 Ha: median of a_PVOL052 - b_PVOL052 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL052 - b_PVOL052 = 0 vs.
 Ha: median of a_PVOL052 - b_PVOL052 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL052 - b_PVOL052 = 0 vs.
 Ha: median of a_PVOL052 - b_PVOL052 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL053 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL053 - b_PVOL053 = 0 vs.
 Ha: median of a_PVOL053 - b_PVOL053 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL053 - b_PVOL053 = 0 vs.
 Ha: median of a_PVOL053 - b_PVOL053 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL053 - b_PVOL053 = 0 vs.
 Ha: median of a_PVOL053 - b_PVOL053 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL054 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL054 - b_PVOL054 = 0 vs.

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Ha: median of a_PVOL054 - b_PVOL054 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL054 - b_PVOL054 = 0 vs.
 Ha: median of a_PVOL054 - b_PVOL054 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL054 - b_PVOL054 = 0 vs.
 Ha: median of a_PVOL054 - b_PVOL054 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL055 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL055 - b_PVOL055 = 0 vs.
 Ha: median of a_PVOL055 - b_PVOL055 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PVOL055 - b_PVOL055 = 0 vs.
 Ha: median of a_PVOL055 - b_PVOL055 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL055 - b_PVOL055 = 0 vs.
 Ha: median of a_PVOL055 - b_PVOL055 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL056 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL056 - b_PVOL056 = 0 vs.
 Ha: median of a_PVOL056 - b_PVOL056 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PVOL056 - b_PVOL056 = 0 vs.
 Ha: median of a_PVOL056 - b_PVOL056 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL056 - b_PVOL056 = 0 vs.
 Ha: median of a_PVOL056 - b_PVOL056 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL057 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL057 - b_PVOL057 = 0 vs.
 Ha: median of a_PVOL057 - b_PVOL057 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL057 - b_PVOL057 = 0 vs.
 Ha: median of a_PVOL057 - b_PVOL057 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL057 - b_PVOL057 = 0 vs.
 Ha: median of a_PVOL057 - b_PVOL057 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL058 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL058 - b_PVOL058 = 0 vs.
 Ha: median of a_PVOL058 - b_PVOL058 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL058 - b_PVOL058 = 0 vs.
 Ha: median of a_PVOL058 - b_PVOL058 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL058 - b_PVOL058 = 0 vs.
 Ha: median of a_PVOL058 - b_PVOL058 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL059 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL059 - b_PVOL059 = 0 vs.
Ha: median of a_PVOL059 - b_PVOL059 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL059 - b_PVOL059 = 0 vs.
Ha: median of a_PVOL059 - b_PVOL059 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL059 - b_PVOL059 = 0 vs.
Ha: median of a_PVOL059 - b_PVOL059 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL060 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL060 - b_PVOL060 = 0 vs.
Ha: median of a_PVOL060 - b_PVOL060 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL060 - b_PVOL060 = 0 vs.
Ha: median of a_PVOL060 - b_PVOL060 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL060 - b_PVOL060 = 0 vs.
Ha: median of a_PVOL060 - b_PVOL060 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL061 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL061 - b_PVOL061 = 0 vs.
Ha: median of a_PVOL061 - b_PVOL061 > 0
Pr(#positive >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL061 - b_PVOL061 = 0 vs.
Ha: median of a_PVOL061 - b_PVOL061 < 0
Pr(#negative >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PVOL061 - b_PVOL061 = 0 vs.
 Ha: median of a_PVOL061 - b_PVOL061 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL062 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL062 - b_PVOL062 = 0 vs.
 Ha: median of a_PVOL062 - b_PVOL062 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL062 - b_PVOL062 = 0 vs.
 Ha: median of a_PVOL062 - b_PVOL062 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL062 - b_PVOL062 = 0 vs.
 Ha: median of a_PVOL062 - b_PVOL062 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL063 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL063 - b_PVOL063 = 0 vs.
 Ha: median of a_PVOL063 - b_PVOL063 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL063 - b_PVOL063 = 0 vs.
 Ha: median of a_PVOL063 - b_PVOL063 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL063 - b_PVOL063 = 0 vs.
 Ha: median of a_PVOL063 - b_PVOL063 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL064 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_PVOL064 - b_PVOL064 = 0 vs.
 Ha: median of a_PVOL064 - b_PVOL064 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL064 - b_PVOL064 = 0 vs.
 Ha: median of a_PVOL064 - b_PVOL064 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL064 - b_PVOL064 = 0 vs.
 Ha: median of a_PVOL064 - b_PVOL064 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL065 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL065 - b_PVOL065 = 0 vs.
 Ha: median of a_PVOL065 - b_PVOL065 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL065 - b_PVOL065 = 0 vs.
 Ha: median of a_PVOL065 - b_PVOL065 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL065 - b_PVOL065 = 0 vs.
 Ha: median of a_PVOL065 - b_PVOL065 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL066 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL066 - b_PVOL066 = 0 vs.
 Ha: median of a_PVOL066 - b_PVOL066 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Ho: median of a_PVOL066 - b_PVOL066 = 0 vs.
 Ha: median of a_PVOL066 - b_PVOL066 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL066 - b_PVOL066 = 0 vs.
 Ha: median of a_PVOL066 - b_PVOL066 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL067 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL067 - b_PVOL067 = 0 vs.
 Ha: median of a_PVOL067 - b_PVOL067 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL067 - b_PVOL067 = 0 vs.
 Ha: median of a_PVOL067 - b_PVOL067 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL067 - b_PVOL067 = 0 vs.
 Ha: median of a_PVOL067 - b_PVOL067 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL068 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL068 - b_PVOL068 = 0 vs.
 Ha: median of a_PVOL068 - b_PVOL068 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL068 - b_PVOL068 = 0 vs.
 Ha: median of a_PVOL068 - b_PVOL068 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL068 - b_PVOL068 = 0 vs.
 Ha: median of a_PVOL068 - b_PVOL068 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL069 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL069 - b_PVOL069 = 0 vs.
 Ha: median of a_PVOL069 - b_PVOL069 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL069 - b_PVOL069 = 0 vs.
 Ha: median of a_PVOL069 - b_PVOL069 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL069 - b_PVOL069 = 0 vs.
 Ha: median of a_PVOL069 - b_PVOL069 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL070 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL070 - b_PVOL070 = 0 vs.
 Ha: median of a_PVOL070 - b_PVOL070 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL070 - b_PVOL070 = 0 vs.
 Ha: median of a_PVOL070 - b_PVOL070 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL070 - b_PVOL070 = 0 vs.
 Ha: median of a_PVOL070 - b_PVOL070 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL071 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL071 - b_PVOL071 = 0 vs.

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Ha: median of a_PVOL071 - b_PVOL071 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL071 - b_PVOL071 = 0 vs.
 Ha: median of a_PVOL071 - b_PVOL071 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL071 - b_PVOL071 = 0 vs.
 Ha: median of a_PVOL071 - b_PVOL071 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL072 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL072 - b_PVOL072 = 0 vs.
 Ha: median of a_PVOL072 - b_PVOL072 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL072 - b_PVOL072 = 0 vs.
 Ha: median of a_PVOL072 - b_PVOL072 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL072 - b_PVOL072 = 0 vs.
 Ha: median of a_PVOL072 - b_PVOL072 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL073 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL073 - b_PVOL073 = 0 vs.
 Ha: median of a_PVOL073 - b_PVOL073 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL073 - b_PVOL073 = 0 vs.
 Ha: median of a_PVOL073 - b_PVOL073 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL073 - b_PVOL073 = 0 vs.
 Ha: median of a_PVOL073 - b_PVOL073 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL074 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL074 - b_PVOL074 = 0 vs.
 Ha: median of a_PVOL074 - b_PVOL074 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL074 - b_PVOL074 = 0 vs.
 Ha: median of a_PVOL074 - b_PVOL074 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL074 - b_PVOL074 = 0 vs.
 Ha: median of a_PVOL074 - b_PVOL074 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL075 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL075 - b_PVOL075 = 0 vs.
 Ha: median of a_PVOL075 - b_PVOL075 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL075 - b_PVOL075 = 0 vs.
 Ha: median of a_PVOL075 - b_PVOL075 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL075 - b_PVOL075 = 0 vs.
 Ha: median of a_PVOL075 - b_PVOL075 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL076 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL076 - b_PVOL076 = 0 vs.
Ha: median of a_PVOL076 - b_PVOL076 > 0
Pr(#positive >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL076 - b_PVOL076 = 0 vs.
Ha: median of a_PVOL076 - b_PVOL076 < 0
Pr(#negative >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL076 - b_PVOL076 = 0 vs.
Ha: median of a_PVOL076 - b_PVOL076 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL077 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL077 - b_PVOL077 = 0 vs.
Ha: median of a_PVOL077 - b_PVOL077 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL077 - b_PVOL077 = 0 vs.
Ha: median of a_PVOL077 - b_PVOL077 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL077 - b_PVOL077 = 0 vs.
Ha: median of a_PVOL077 - b_PVOL077 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL078 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL078 - b_PVOL078 = 0 vs.
Ha: median of a_PVOL078 - b_PVOL078 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL078 - b_PVOL078 = 0 vs.
Ha: median of a_PVOL078 - b_PVOL078 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PVOL078 - b_PVOL078 = 0 vs.
 Ha: median of a_PVOL078 - b_PVOL078 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL079 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL079 - b_PVOL079 = 0 vs.
 Ha: median of a_PVOL079 - b_PVOL079 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL079 - b_PVOL079 = 0 vs.
 Ha: median of a_PVOL079 - b_PVOL079 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL079 - b_PVOL079 = 0 vs.
 Ha: median of a_PVOL079 - b_PVOL079 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL080 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL080 - b_PVOL080 = 0 vs.
 Ha: median of a_PVOL080 - b_PVOL080 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL080 - b_PVOL080 = 0 vs.
 Ha: median of a_PVOL080 - b_PVOL080 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL080 - b_PVOL080 = 0 vs.
 Ha: median of a_PVOL080 - b_PVOL080 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL081 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_PVOL081 - b_PVOL081 = 0 vs.
 Ha: median of a_PVOL081 - b_PVOL081 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL081 - b_PVOL081 = 0 vs.
 Ha: median of a_PVOL081 - b_PVOL081 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL081 - b_PVOL081 = 0 vs.
 Ha: median of a_PVOL081 - b_PVOL081 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL082 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL082 - b_PVOL082 = 0 vs.
 Ha: median of a_PVOL082 - b_PVOL082 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL082 - b_PVOL082 = 0 vs.
 Ha: median of a_PVOL082 - b_PVOL082 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL082 - b_PVOL082 = 0 vs.
 Ha: median of a_PVOL082 - b_PVOL082 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL083 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL083 - b_PVOL083 = 0 vs.
 Ha: median of a_PVOL083 - b_PVOL083 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL083 - b_PVOL083 = 0 vs.
 Ha: median of a_PVOL083 - b_PVOL083 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL083 - b_PVOL083 = 0 vs.
 Ha: median of a_PVOL083 - b_PVOL083 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL084 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL084 - b_PVOL084 = 0 vs.
 Ha: median of a_PVOL084 - b_PVOL084 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL084 - b_PVOL084 = 0 vs.
 Ha: median of a_PVOL084 - b_PVOL084 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL084 - b_PVOL084 = 0 vs.
 Ha: median of a_PVOL084 - b_PVOL084 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL085 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL085 - b_PVOL085 = 0 vs.
 Ha: median of a_PVOL085 - b_PVOL085 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL085 - b_PVOL085 = 0 vs.
 Ha: median of a_PVOL085 - b_PVOL085 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL085 - b_PVOL085 = 0 vs.
 Ha: median of a_PVOL085 - b_PVOL085 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL086 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL086 - b_PVOL086 = 0 vs.
 Ha: median of a_PVOL086 - b_PVOL086 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL086 - b_PVOL086 = 0 vs.
 Ha: median of a_PVOL086 - b_PVOL086 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL086 - b_PVOL086 = 0 vs.
 Ha: median of a_PVOL086 - b_PVOL086 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL087 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL087 - b_PVOL087 = 0 vs.
 Ha: median of a_PVOL087 - b_PVOL087 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL087 - b_PVOL087 = 0 vs.
 Ha: median of a_PVOL087 - b_PVOL087 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL087 - b_PVOL087 = 0 vs.
 Ha: median of a_PVOL087 - b_PVOL087 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL088 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL088 - b_PVOL088 = 0 vs.

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Ha: median of a_PVOL088 - b_PVOL088 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL088 - b_PVOL088 = 0 vs.
 Ha: median of a_PVOL088 - b_PVOL088 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL088 - b_PVOL088 = 0 vs.
 Ha: median of a_PVOL088 - b_PVOL088 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL089 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL089 - b_PVOL089 = 0 vs.
 Ha: median of a_PVOL089 - b_PVOL089 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL089 - b_PVOL089 = 0 vs.
 Ha: median of a_PVOL089 - b_PVOL089 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL089 - b_PVOL089 = 0 vs.
 Ha: median of a_PVOL089 - b_PVOL089 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL090 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL090 - b_PVOL090 = 0 vs.
 Ha: median of a_PVOL090 - b_PVOL090 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL090 - b_PVOL090 = 0 vs.
 Ha: median of a_PVOL090 - b_PVOL090 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL090 - b_PVOL090 = 0 vs.
 Ha: median of a_PVOL090 - b_PVOL090 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL091 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL091 - b_PVOL091 = 0 vs.
 Ha: median of a_PVOL091 - b_PVOL091 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL091 - b_PVOL091 = 0 vs.
 Ha: median of a_PVOL091 - b_PVOL091 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL091 - b_PVOL091 = 0 vs.
 Ha: median of a_PVOL091 - b_PVOL091 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL092 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL092 - b_PVOL092 = 0 vs.
 Ha: median of a_PVOL092 - b_PVOL092 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL092 - b_PVOL092 = 0 vs.
 Ha: median of a_PVOL092 - b_PVOL092 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL092 - b_PVOL092 = 0 vs.
 Ha: median of a_PVOL092 - b_PVOL092 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL093 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0

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1 1

One-sided tests:

Ho: median of a_PVOL093 - b_PVOL093 = 0 vs.
 Ha: median of a_PVOL093 - b_PVOL093 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL093 - b_PVOL093 = 0 vs.
 Ha: median of a_PVOL093 - b_PVOL093 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL093 - b_PVOL093 = 0 vs.
 Ha: median of a_PVOL093 - b_PVOL093 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL094 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL094 - b_PVOL094 = 0 vs.
 Ha: median of a_PVOL094 - b_PVOL094 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL094 - b_PVOL094 = 0 vs.
 Ha: median of a_PVOL094 - b_PVOL094 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL094 - b_PVOL094 = 0 vs.
 Ha: median of a_PVOL094 - b_PVOL094 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL095 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL095 - b_PVOL095 = 0 vs.
 Ha: median of a_PVOL095 - b_PVOL095 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL095 - b_PVOL095 = 0 vs.
 Ha: median of a_PVOL095 - b_PVOL095 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PVOL095 - b_PVOL095 = 0 vs.
 Ha: median of a_PVOL095 - b_PVOL095 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL096 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL096 - b_PVOL096 = 0 vs.
 Ha: median of a_PVOL096 - b_PVOL096 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL096 - b_PVOL096 = 0 vs.
 Ha: median of a_PVOL096 - b_PVOL096 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL096 - b_PVOL096 = 0 vs.
 Ha: median of a_PVOL096 - b_PVOL096 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL097 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL097 - b_PVOL097 = 0 vs.
 Ha: median of a_PVOL097 - b_PVOL097 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL097 - b_PVOL097 = 0 vs.
 Ha: median of a_PVOL097 - b_PVOL097 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL097 - b_PVOL097 = 0 vs.
 Ha: median of a_PVOL097 - b_PVOL097 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL098 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		1		.5
negative		0		.5
zero		0		0

all		1		1

One-sided tests:

Ho: median of a_PVOL098 - b_PVOL098 = 0 vs.
 Ha: median of a_PVOL098 - b_PVOL098 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL098 - b_PVOL098 = 0 vs.
 Ha: median of a_PVOL098 - b_PVOL098 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL098 - b_PVOL098 = 0 vs.
 Ha: median of a_PVOL098 - b_PVOL098 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL099 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL099 - b_PVOL099 = 0 vs.
 Ha: median of a_PVOL099 - b_PVOL099 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL099 - b_PVOL099 = 0 vs.
 Ha: median of a_PVOL099 - b_PVOL099 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL099 - b_PVOL099 = 0 vs.
 Ha: median of a_PVOL099 - b_PVOL099 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL100 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL100 - b_PVOL100 = 0 vs.
 Ha: median of a_PVOL100 - b_PVOL100 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL100 - b_PVOL100 = 0 vs.
 Ha: median of a_PVOL100 - b_PVOL100 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL100 - b_PVOL100 = 0 vs.
 Ha: median of a_PVOL100 - b_PVOL100 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL101 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL101 - b_PVOL101 = 0 vs.
 Ha: median of a_PVOL101 - b_PVOL101 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL101 - b_PVOL101 = 0 vs.
 Ha: median of a_PVOL101 - b_PVOL101 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL101 - b_PVOL101 = 0 vs.
 Ha: median of a_PVOL101 - b_PVOL101 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL102 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL102 - b_PVOL102 = 0 vs.
 Ha: median of a_PVOL102 - b_PVOL102 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL102 - b_PVOL102 = 0 vs.
 Ha: median of a_PVOL102 - b_PVOL102 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL102 - b_PVOL102 = 0 vs.
 Ha: median of a_PVOL102 - b_PVOL102 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL103 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL103 - b_PVOL103 = 0 vs.
 Ha: median of a_PVOL103 - b_PVOL103 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL103 - b_PVOL103 = 0 vs.
 Ha: median of a_PVOL103 - b_PVOL103 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL103 - b_PVOL103 = 0 vs.
 Ha: median of a_PVOL103 - b_PVOL103 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL104 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL104 - b_PVOL104 = 0 vs.
 Ha: median of a_PVOL104 - b_PVOL104 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL104 - b_PVOL104 = 0 vs.
 Ha: median of a_PVOL104 - b_PVOL104 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL104 - b_PVOL104 = 0 vs.
 Ha: median of a_PVOL104 - b_PVOL104 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL105 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL105 - b_PVOL105 = 0 vs.

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Ha: median of a_PVOL105 - b_PVOL105 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL105 - b_PVOL105 = 0 vs.
 Ha: median of a_PVOL105 - b_PVOL105 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL105 - b_PVOL105 = 0 vs.
 Ha: median of a_PVOL105 - b_PVOL105 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL106 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL106 - b_PVOL106 = 0 vs.
 Ha: median of a_PVOL106 - b_PVOL106 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL106 - b_PVOL106 = 0 vs.
 Ha: median of a_PVOL106 - b_PVOL106 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL106 - b_PVOL106 = 0 vs.
 Ha: median of a_PVOL106 - b_PVOL106 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL107 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL107 - b_PVOL107 = 0 vs.
 Ha: median of a_PVOL107 - b_PVOL107 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL107 - b_PVOL107 = 0 vs.
 Ha: median of a_PVOL107 - b_PVOL107 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL107 - b_PVOL107 = 0 vs.
 Ha: median of a_PVOL107 - b_PVOL107 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL108 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL108 - b_PVOL108 = 0 vs.
 Ha: median of a_PVOL108 - b_PVOL108 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL108 - b_PVOL108 = 0 vs.
 Ha: median of a_PVOL108 - b_PVOL108 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL108 - b_PVOL108 = 0 vs.
 Ha: median of a_PVOL108 - b_PVOL108 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL109 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL109 - b_PVOL109 = 0 vs.
 Ha: median of a_PVOL109 - b_PVOL109 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL109 - b_PVOL109 = 0 vs.
 Ha: median of a_PVOL109 - b_PVOL109 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL109 - b_PVOL109 = 0 vs.
 Ha: median of a_PVOL109 - b_PVOL109 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL110 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL110 - b_PVOL110 = 0 vs.
Ha: median of a_PVOL110 - b_PVOL110 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL110 - b_PVOL110 = 0 vs.
Ha: median of a_PVOL110 - b_PVOL110 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL110 - b_PVOL110 = 0 vs.
Ha: median of a_PVOL110 - b_PVOL110 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL111 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL111 - b_PVOL111 = 0 vs.
Ha: median of a_PVOL111 - b_PVOL111 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL111 - b_PVOL111 = 0 vs.
Ha: median of a_PVOL111 - b_PVOL111 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL111 - b_PVOL111 = 0 vs.
Ha: median of a_PVOL111 - b_PVOL111 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL112 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL112 - b_PVOL112 = 0 vs.
Ha: median of a_PVOL112 - b_PVOL112 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL112 - b_PVOL112 = 0 vs.
Ha: median of a_PVOL112 - b_PVOL112 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PVOL112 - b_PVOL112 = 0 vs.
 Ha: median of a_PVOL112 - b_PVOL112 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL113 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL113 - b_PVOL113 = 0 vs.
 Ha: median of a_PVOL113 - b_PVOL113 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL113 - b_PVOL113 = 0 vs.
 Ha: median of a_PVOL113 - b_PVOL113 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL113 - b_PVOL113 = 0 vs.
 Ha: median of a_PVOL113 - b_PVOL113 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL114 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL114 - b_PVOL114 = 0 vs.
 Ha: median of a_PVOL114 - b_PVOL114 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL114 - b_PVOL114 = 0 vs.
 Ha: median of a_PVOL114 - b_PVOL114 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL114 - b_PVOL114 = 0 vs.
 Ha: median of a_PVOL114 - b_PVOL114 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL115 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0		.5
negative		1		.5
zero		0		0

all		1		1

One-sided tests:

Ho: median of a_PVOL115 - b_PVOL115 = 0 vs.
 Ha: median of a_PVOL115 - b_PVOL115 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL115 - b_PVOL115 = 0 vs.
 Ha: median of a_PVOL115 - b_PVOL115 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL115 - b_PVOL115 = 0 vs.
 Ha: median of a_PVOL115 - b_PVOL115 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL116 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL116 - b_PVOL116 = 0 vs.
 Ha: median of a_PVOL116 - b_PVOL116 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL116 - b_PVOL116 = 0 vs.
 Ha: median of a_PVOL116 - b_PVOL116 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL116 - b_PVOL116 = 0 vs.
 Ha: median of a_PVOL116 - b_PVOL116 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL117 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL117 - b_PVOL117 = 0 vs.
 Ha: median of a_PVOL117 - b_PVOL117 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL117 - b_PVOL117 = 0 vs.
 Ha: median of a_PVOL117 - b_PVOL117 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL117 - b_PVOL117 = 0 vs.
 Ha: median of a_PVOL117 - b_PVOL117 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL118 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL118 - b_PVOL118 = 0 vs.
 Ha: median of a_PVOL118 - b_PVOL118 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL118 - b_PVOL118 = 0 vs.
 Ha: median of a_PVOL118 - b_PVOL118 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL118 - b_PVOL118 = 0 vs.
 Ha: median of a_PVOL118 - b_PVOL118 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL119 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL119 - b_PVOL119 = 0 vs.
 Ha: median of a_PVOL119 - b_PVOL119 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL119 - b_PVOL119 = 0 vs.
 Ha: median of a_PVOL119 - b_PVOL119 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL119 - b_PVOL119 = 0 vs.
 Ha: median of a_PVOL119 - b_PVOL119 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL120 -----

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Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL120 - b_PVOL120 = 0 vs.
 Ha: median of a_PVOL120 - b_PVOL120 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL120 - b_PVOL120 = 0 vs.
 Ha: median of a_PVOL120 - b_PVOL120 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL120 - b_PVOL120 = 0 vs.
 Ha: median of a_PVOL120 - b_PVOL120 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL121 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL121 - b_PVOL121 = 0 vs.
 Ha: median of a_PVOL121 - b_PVOL121 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL121 - b_PVOL121 = 0 vs.
 Ha: median of a_PVOL121 - b_PVOL121 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL121 - b_PVOL121 = 0 vs.
 Ha: median of a_PVOL121 - b_PVOL121 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL122 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL122 - b_PVOL122 = 0 vs.

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Ha: median of a_PVOL122 - b_PVOL122 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL122 - b_PVOL122 = 0 vs.
 Ha: median of a_PVOL122 - b_PVOL122 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL122 - b_PVOL122 = 0 vs.
 Ha: median of a_PVOL122 - b_PVOL122 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL123 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL123 - b_PVOL123 = 0 vs.
 Ha: median of a_PVOL123 - b_PVOL123 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL123 - b_PVOL123 = 0 vs.
 Ha: median of a_PVOL123 - b_PVOL123 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL123 - b_PVOL123 = 0 vs.
 Ha: median of a_PVOL123 - b_PVOL123 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL124 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL124 - b_PVOL124 = 0 vs.
 Ha: median of a_PVOL124 - b_PVOL124 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL124 - b_PVOL124 = 0 vs.
 Ha: median of a_PVOL124 - b_PVOL124 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL124 - b_PVOL124 = 0 vs.
 Ha: median of a_PVOL124 - b_PVOL124 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL125 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL125 - b_PVOL125 = 0 vs.
 Ha: median of a_PVOL125 - b_PVOL125 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL125 - b_PVOL125 = 0 vs.
 Ha: median of a_PVOL125 - b_PVOL125 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL125 - b_PVOL125 = 0 vs.
 Ha: median of a_PVOL125 - b_PVOL125 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL126 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL126 - b_PVOL126 = 0 vs.
 Ha: median of a_PVOL126 - b_PVOL126 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL126 - b_PVOL126 = 0 vs.
 Ha: median of a_PVOL126 - b_PVOL126 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL126 - b_PVOL126 = 0 vs.
 Ha: median of a_PVOL126 - b_PVOL126 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL127 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL127 - b_PVOL127 = 0 vs.
 Ha: median of a_PVOL127 - b_PVOL127 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL127 - b_PVOL127 = 0 vs.
 Ha: median of a_PVOL127 - b_PVOL127 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL127 - b_PVOL127 = 0 vs.
 Ha: median of a_PVOL127 - b_PVOL127 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL128 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL128 - b_PVOL128 = 0 vs.
 Ha: median of a_PVOL128 - b_PVOL128 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL128 - b_PVOL128 = 0 vs.
 Ha: median of a_PVOL128 - b_PVOL128 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL128 - b_PVOL128 = 0 vs.
 Ha: median of a_PVOL128 - b_PVOL128 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL129 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL129 - b_PVOL129 = 0 vs.
 Ha: median of a_PVOL129 - b_PVOL129 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL129 - b_PVOL129 = 0 vs.
 Ha: median of a_PVOL129 - b_PVOL129 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PVOL129 - b_PVOL129 = 0 vs.
 Ha: median of a_PVOL129 - b_PVOL129 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL130 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL130 - b_PVOL130 = 0 vs.
 Ha: median of a_PVOL130 - b_PVOL130 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL130 - b_PVOL130 = 0 vs.
 Ha: median of a_PVOL130 - b_PVOL130 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL130 - b_PVOL130 = 0 vs.
 Ha: median of a_PVOL130 - b_PVOL130 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL131 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL131 - b_PVOL131 = 0 vs.
 Ha: median of a_PVOL131 - b_PVOL131 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL131 - b_PVOL131 = 0 vs.
 Ha: median of a_PVOL131 - b_PVOL131 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL131 - b_PVOL131 = 0 vs.
 Ha: median of a_PVOL131 - b_PVOL131 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL132 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		1	.5	
negative		0	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_PVOL132 - b_PVOL132 = 0 vs.
 Ha: median of a_PVOL132 - b_PVOL132 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL132 - b_PVOL132 = 0 vs.
 Ha: median of a_PVOL132 - b_PVOL132 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL132 - b_PVOL132 = 0 vs.
 Ha: median of a_PVOL132 - b_PVOL132 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL133 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL133 - b_PVOL133 = 0 vs.
 Ha: median of a_PVOL133 - b_PVOL133 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL133 - b_PVOL133 = 0 vs.
 Ha: median of a_PVOL133 - b_PVOL133 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL133 - b_PVOL133 = 0 vs.
 Ha: median of a_PVOL133 - b_PVOL133 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL134 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL134 - b_PVOL134 = 0 vs.
 Ha: median of a_PVOL134 - b_PVOL134 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Ho: median of a_PVOL134 - b_PVOL134 = 0 vs.
 Ha: median of a_PVOL134 - b_PVOL134 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL134 - b_PVOL134 = 0 vs.
 Ha: median of a_PVOL134 - b_PVOL134 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL135 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL135 - b_PVOL135 = 0 vs.
 Ha: median of a_PVOL135 - b_PVOL135 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL135 - b_PVOL135 = 0 vs.
 Ha: median of a_PVOL135 - b_PVOL135 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL135 - b_PVOL135 = 0 vs.
 Ha: median of a_PVOL135 - b_PVOL135 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL136 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_PVOL136 - b_PVOL136 = 0 vs.
 Ha: median of a_PVOL136 - b_PVOL136 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL136 - b_PVOL136 = 0 vs.
 Ha: median of a_PVOL136 - b_PVOL136 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL136 - b_PVOL136 = 0 vs.
 Ha: median of a_PVOL136 - b_PVOL136 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL137 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	1	1
all	2	2

One-sided tests:

Ho: median of a_PVOL137 - b_PVOL137 = 0 vs.
 Ha: median of a_PVOL137 - b_PVOL137 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL137 - b_PVOL137 = 0 vs.
 Ha: median of a_PVOL137 - b_PVOL137 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL137 - b_PVOL137 = 0 vs.
 Ha: median of a_PVOL137 - b_PVOL137 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL138 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL138 - b_PVOL138 = 0 vs.
 Ha: median of a_PVOL138 - b_PVOL138 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL138 - b_PVOL138 = 0 vs.
 Ha: median of a_PVOL138 - b_PVOL138 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL138 - b_PVOL138 = 0 vs.
 Ha: median of a_PVOL138 - b_PVOL138 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL139 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL139 - b_PVOL139 = 0 vs.

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Ha: median of a_PVOL139 - b_PVOL139 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL139 - b_PVOL139 = 0 vs.
 Ha: median of a_PVOL139 - b_PVOL139 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL139 - b_PVOL139 = 0 vs.
 Ha: median of a_PVOL139 - b_PVOL139 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL140 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PVOL140 - b_PVOL140 = 0 vs.
 Ha: median of a_PVOL140 - b_PVOL140 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL140 - b_PVOL140 = 0 vs.
 Ha: median of a_PVOL140 - b_PVOL140 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PVOL140 - b_PVOL140 = 0 vs.
 Ha: median of a_PVOL140 - b_PVOL140 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL141 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	1	1
all	2	2

One-sided tests:
 Ho: median of a_PVOL141 - b_PVOL141 = 0 vs.
 Ha: median of a_PVOL141 - b_PVOL141 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL141 - b_PVOL141 = 0 vs.
 Ha: median of a_PVOL141 - b_PVOL141 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL141 - b_PVOL141 = 0 vs.
 Ha: median of a_PVOL141 - b_PVOL141 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL142 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL142 - b_PVOL142 = 0 vs.
 Ha: median of a_PVOL142 - b_PVOL142 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL142 - b_PVOL142 = 0 vs.
 Ha: median of a_PVOL142 - b_PVOL142 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL142 - b_PVOL142 = 0 vs.
 Ha: median of a_PVOL142 - b_PVOL142 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL143 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL143 - b_PVOL143 = 0 vs.
 Ha: median of a_PVOL143 - b_PVOL143 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL143 - b_PVOL143 = 0 vs.
 Ha: median of a_PVOL143 - b_PVOL143 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL143 - b_PVOL143 = 0 vs.
 Ha: median of a_PVOL143 - b_PVOL143 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL144 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

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One-sided tests:

Ho: median of a_PVOL144 - b_PVOL144 = 0 vs.
 Ha: median of a_PVOL144 - b_PVOL144 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL144 - b_PVOL144 = 0 vs.
 Ha: median of a_PVOL144 - b_PVOL144 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL144 - b_PVOL144 = 0 vs.
 Ha: median of a_PVOL144 - b_PVOL144 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PVOL145 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL145 - b_PVOL145 = 0 vs.
 Ha: median of a_PVOL145 - b_PVOL145 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL145 - b_PVOL145 = 0 vs.
 Ha: median of a_PVOL145 - b_PVOL145 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL145 - b_PVOL145 = 0 vs.
 Ha: median of a_PVOL145 - b_PVOL145 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PVOL146 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL146 - b_PVOL146 = 0 vs.
 Ha: median of a_PVOL146 - b_PVOL146 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL146 - b_PVOL146 = 0 vs.
 Ha: median of a_PVOL146 - b_PVOL146 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

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Two-sided test:

Ho: median of a_PVOL146 - b_PVOL146 = 0 vs.
 Ha: median of a_PVOL146 - b_PVOL146 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL147 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL147 - b_PVOL147 = 0 vs.
 Ha: median of a_PVOL147 - b_PVOL147 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL147 - b_PVOL147 = 0 vs.
 Ha: median of a_PVOL147 - b_PVOL147 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL147 - b_PVOL147 = 0 vs.
 Ha: median of a_PVOL147 - b_PVOL147 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL148 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL148 - b_PVOL148 = 0 vs.
 Ha: median of a_PVOL148 - b_PVOL148 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL148 - b_PVOL148 = 0 vs.
 Ha: median of a_PVOL148 - b_PVOL148 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL148 - b_PVOL148 = 0 vs.
 Ha: median of a_PVOL148 - b_PVOL148 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL149 -----

Sign test

sign	observed	expected
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positive	0	2
negative	4	2
zero	0	0

all	4	4

One-sided tests:

Ho: median of a_PVOL149 - b_PVOL149 = 0 vs.
 Ha: median of a_PVOL149 - b_PVOL149 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL149 - b_PVOL149 = 0 vs.
 Ha: median of a_PVOL149 - b_PVOL149 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL149 - b_PVOL149 = 0 vs.
 Ha: median of a_PVOL149 - b_PVOL149 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL150 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0

all	3	3

One-sided tests:

Ho: median of a_PVOL150 - b_PVOL150 = 0 vs.
 Ha: median of a_PVOL150 - b_PVOL150 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL150 - b_PVOL150 = 0 vs.
 Ha: median of a_PVOL150 - b_PVOL150 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_PVOL150 - b_PVOL150 = 0 vs.
 Ha: median of a_PVOL150 - b_PVOL150 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL151 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0

all	3	3

One-sided tests:

Ho: median of a_PVOL151 - b_PVOL151 = 0 vs.
 Ha: median of a_PVOL151 - b_PVOL151 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL151 - b_PVOL151 = 0 vs.
 Ha: median of a_PVOL151 - b_PVOL151 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_PVOL151 - b_PVOL151 = 0 vs.
 Ha: median of a_PVOL151 - b_PVOL151 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL152 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL152 - b_PVOL152 = 0 vs.
 Ha: median of a_PVOL152 - b_PVOL152 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL152 - b_PVOL152 = 0 vs.
 Ha: median of a_PVOL152 - b_PVOL152 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL152 - b_PVOL152 = 0 vs.
 Ha: median of a_PVOL152 - b_PVOL152 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL153 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL153 - b_PVOL153 = 0 vs.
 Ha: median of a_PVOL153 - b_PVOL153 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL153 - b_PVOL153 = 0 vs.
 Ha: median of a_PVOL153 - b_PVOL153 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL153 - b_PVOL153 = 0 vs.
 Ha: median of a_PVOL153 - b_PVOL153 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL154 -----

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Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL154 - b_PVOL154 = 0 vs.
 Ha: median of a_PVOL154 - b_PVOL154 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL154 - b_PVOL154 = 0 vs.
 Ha: median of a_PVOL154 - b_PVOL154 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL154 - b_PVOL154 = 0 vs.
 Ha: median of a_PVOL154 - b_PVOL154 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL155 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL155 - b_PVOL155 = 0 vs.
 Ha: median of a_PVOL155 - b_PVOL155 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL155 - b_PVOL155 = 0 vs.
 Ha: median of a_PVOL155 - b_PVOL155 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL155 - b_PVOL155 = 0 vs.
 Ha: median of a_PVOL155 - b_PVOL155 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL156 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL156 - b_PVOL156 = 0 vs.

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Ha: median of a_PVOL156 - b_PVOL156 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL156 - b_PVOL156 = 0 vs.
 Ha: median of a_PVOL156 - b_PVOL156 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL156 - b_PVOL156 = 0 vs.
 Ha: median of a_PVOL156 - b_PVOL156 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL157 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL157 - b_PVOL157 = 0 vs.
 Ha: median of a_PVOL157 - b_PVOL157 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL157 - b_PVOL157 = 0 vs.
 Ha: median of a_PVOL157 - b_PVOL157 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL157 - b_PVOL157 = 0 vs.
 Ha: median of a_PVOL157 - b_PVOL157 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL158 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL158 - b_PVOL158 = 0 vs.
 Ha: median of a_PVOL158 - b_PVOL158 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL158 - b_PVOL158 = 0 vs.
 Ha: median of a_PVOL158 - b_PVOL158 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL158 - b_PVOL158 = 0 vs.
 Ha: median of a_PVOL158 - b_PVOL158 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL159 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL159 - b_PVOL159 = 0 vs.
 Ha: median of a_PVOL159 - b_PVOL159 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL159 - b_PVOL159 = 0 vs.
 Ha: median of a_PVOL159 - b_PVOL159 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL159 - b_PVOL159 = 0 vs.
 Ha: median of a_PVOL159 - b_PVOL159 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL160 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL160 - b_PVOL160 = 0 vs.
 Ha: median of a_PVOL160 - b_PVOL160 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL160 - b_PVOL160 = 0 vs.
 Ha: median of a_PVOL160 - b_PVOL160 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL160 - b_PVOL160 = 0 vs.
 Ha: median of a_PVOL160 - b_PVOL160 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL161 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL161 - b_PVOL161 = 0 vs.
 Ha: median of a_PVOL161 - b_PVOL161 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL161 - b_PVOL161 = 0 vs.
 Ha: median of a_PVOL161 - b_PVOL161 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL161 - b_PVOL161 = 0 vs.
 Ha: median of a_PVOL161 - b_PVOL161 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL162 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL162 - b_PVOL162 = 0 vs.
 Ha: median of a_PVOL162 - b_PVOL162 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL162 - b_PVOL162 = 0 vs.
 Ha: median of a_PVOL162 - b_PVOL162 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL162 - b_PVOL162 = 0 vs.
 Ha: median of a_PVOL162 - b_PVOL162 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL163 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL163 - b_PVOL163 = 0 vs.
 Ha: median of a_PVOL163 - b_PVOL163 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL163 - b_PVOL163 = 0 vs.
 Ha: median of a_PVOL163 - b_PVOL163 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PVOL163 - b_PVOL163 = 0 vs.
 Ha: median of a_PVOL163 - b_PVOL163 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL164 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL164 - b_PVOL164 = 0 vs.
 Ha: median of a_PVOL164 - b_PVOL164 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL164 - b_PVOL164 = 0 vs.
 Ha: median of a_PVOL164 - b_PVOL164 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL164 - b_PVOL164 = 0 vs.
 Ha: median of a_PVOL164 - b_PVOL164 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL165 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL165 - b_PVOL165 = 0 vs.
 Ha: median of a_PVOL165 - b_PVOL165 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL165 - b_PVOL165 = 0 vs.
 Ha: median of a_PVOL165 - b_PVOL165 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL165 - b_PVOL165 = 0 vs.
 Ha: median of a_PVOL165 - b_PVOL165 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL166 -----

Sign test

sign	observed	expected
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positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL166 - b_PVOL166 = 0 vs.
 Ha: median of a_PVOL166 - b_PVOL166 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL166 - b_PVOL166 = 0 vs.
 Ha: median of a_PVOL166 - b_PVOL166 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL166 - b_PVOL166 = 0 vs.
 Ha: median of a_PVOL166 - b_PVOL166 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL167 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL167 - b_PVOL167 = 0 vs.
 Ha: median of a_PVOL167 - b_PVOL167 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL167 - b_PVOL167 = 0 vs.
 Ha: median of a_PVOL167 - b_PVOL167 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL167 - b_PVOL167 = 0 vs.
 Ha: median of a_PVOL167 - b_PVOL167 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL168 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL168 - b_PVOL168 = 0 vs.
 Ha: median of a_PVOL168 - b_PVOL168 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL168 - b_PVOL168 = 0 vs.
 Ha: median of a_PVOL168 - b_PVOL168 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL168 - b_PVOL168 = 0 vs.
 Ha: median of a_PVOL168 - b_PVOL168 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL169 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL169 - b_PVOL169 = 0 vs.
 Ha: median of a_PVOL169 - b_PVOL169 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL169 - b_PVOL169 = 0 vs.
 Ha: median of a_PVOL169 - b_PVOL169 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL169 - b_PVOL169 = 0 vs.
 Ha: median of a_PVOL169 - b_PVOL169 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL170 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL170 - b_PVOL170 = 0 vs.
 Ha: median of a_PVOL170 - b_PVOL170 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL170 - b_PVOL170 = 0 vs.
 Ha: median of a_PVOL170 - b_PVOL170 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL170 - b_PVOL170 = 0 vs.
 Ha: median of a_PVOL170 - b_PVOL170 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL171 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL171 - b_PVOL171 = 0 vs.
 Ha: median of a_PVOL171 - b_PVOL171 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL171 - b_PVOL171 = 0 vs.
 Ha: median of a_PVOL171 - b_PVOL171 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL171 - b_PVOL171 = 0 vs.
 Ha: median of a_PVOL171 - b_PVOL171 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL172 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL172 - b_PVOL172 = 0 vs.
 Ha: median of a_PVOL172 - b_PVOL172 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL172 - b_PVOL172 = 0 vs.
 Ha: median of a_PVOL172 - b_PVOL172 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL172 - b_PVOL172 = 0 vs.
 Ha: median of a_PVOL172 - b_PVOL172 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL173 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL173 - b_PVOL173 = 0 vs.

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Ha: median of a_PVOL173 - b_PVOL173 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL173 - b_PVOL173 = 0 vs.
 Ha: median of a_PVOL173 - b_PVOL173 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL173 - b_PVOL173 = 0 vs.
 Ha: median of a_PVOL173 - b_PVOL173 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL174 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL174 - b_PVOL174 = 0 vs.
 Ha: median of a_PVOL174 - b_PVOL174 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL174 - b_PVOL174 = 0 vs.
 Ha: median of a_PVOL174 - b_PVOL174 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL174 - b_PVOL174 = 0 vs.
 Ha: median of a_PVOL174 - b_PVOL174 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL175 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL175 - b_PVOL175 = 0 vs.
 Ha: median of a_PVOL175 - b_PVOL175 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL175 - b_PVOL175 = 0 vs.
 Ha: median of a_PVOL175 - b_PVOL175 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL175 - b_PVOL175 = 0 vs.
 Ha: median of a_PVOL175 - b_PVOL175 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL176 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL176 - b_PVOL176 = 0 vs.
 Ha: median of a_PVOL176 - b_PVOL176 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL176 - b_PVOL176 = 0 vs.
 Ha: median of a_PVOL176 - b_PVOL176 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL176 - b_PVOL176 = 0 vs.
 Ha: median of a_PVOL176 - b_PVOL176 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL177 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL177 - b_PVOL177 = 0 vs.
 Ha: median of a_PVOL177 - b_PVOL177 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL177 - b_PVOL177 = 0 vs.
 Ha: median of a_PVOL177 - b_PVOL177 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL177 - b_PVOL177 = 0 vs.
 Ha: median of a_PVOL177 - b_PVOL177 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL178 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL178 - b_PVOL178 = 0 vs.
Ha: median of a_PVOL178 - b_PVOL178 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL178 - b_PVOL178 = 0 vs.
Ha: median of a_PVOL178 - b_PVOL178 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL178 - b_PVOL178 = 0 vs.
Ha: median of a_PVOL178 - b_PVOL178 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL179 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL179 - b_PVOL179 = 0 vs.
Ha: median of a_PVOL179 - b_PVOL179 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL179 - b_PVOL179 = 0 vs.
Ha: median of a_PVOL179 - b_PVOL179 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL179 - b_PVOL179 = 0 vs.
Ha: median of a_PVOL179 - b_PVOL179 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL180 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL180 - b_PVOL180 = 0 vs.
Ha: median of a_PVOL180 - b_PVOL180 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL180 - b_PVOL180 = 0 vs.
Ha: median of a_PVOL180 - b_PVOL180 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PVOL180 - b_PVOL180 = 0 vs.
 Ha: median of a_PVOL180 - b_PVOL180 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL181 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL181 - b_PVOL181 = 0 vs.
 Ha: median of a_PVOL181 - b_PVOL181 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL181 - b_PVOL181 = 0 vs.
 Ha: median of a_PVOL181 - b_PVOL181 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL181 - b_PVOL181 = 0 vs.
 Ha: median of a_PVOL181 - b_PVOL181 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL182 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL182 - b_PVOL182 = 0 vs.
 Ha: median of a_PVOL182 - b_PVOL182 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL182 - b_PVOL182 = 0 vs.
 Ha: median of a_PVOL182 - b_PVOL182 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL182 - b_PVOL182 = 0 vs.
 Ha: median of a_PVOL182 - b_PVOL182 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL183 -----

Sign test

sign	observed	expected
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positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL183 - b_PVOL183 = 0 vs.
 Ha: median of a_PVOL183 - b_PVOL183 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL183 - b_PVOL183 = 0 vs.
 Ha: median of a_PVOL183 - b_PVOL183 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL183 - b_PVOL183 = 0 vs.
 Ha: median of a_PVOL183 - b_PVOL183 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL184 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL184 - b_PVOL184 = 0 vs.
 Ha: median of a_PVOL184 - b_PVOL184 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL184 - b_PVOL184 = 0 vs.
 Ha: median of a_PVOL184 - b_PVOL184 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL184 - b_PVOL184 = 0 vs.
 Ha: median of a_PVOL184 - b_PVOL184 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL185 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL185 - b_PVOL185 = 0 vs.
 Ha: median of a_PVOL185 - b_PVOL185 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL185 - b_PVOL185 = 0 vs.
 Ha: median of a_PVOL185 - b_PVOL185 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL185 - b_PVOL185 = 0 vs.
 Ha: median of a_PVOL185 - b_PVOL185 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL186 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PVOL186 - b_PVOL186 = 0 vs.
 Ha: median of a_PVOL186 - b_PVOL186 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL186 - b_PVOL186 = 0 vs.
 Ha: median of a_PVOL186 - b_PVOL186 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL186 - b_PVOL186 = 0 vs.
 Ha: median of a_PVOL186 - b_PVOL186 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL187 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PVOL187 - b_PVOL187 = 0 vs.
 Ha: median of a_PVOL187 - b_PVOL187 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL187 - b_PVOL187 = 0 vs.
 Ha: median of a_PVOL187 - b_PVOL187 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL187 - b_PVOL187 = 0 vs.
 Ha: median of a_PVOL187 - b_PVOL187 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL188 -----

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Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL188 - b_PVOL188 = 0 vs.
 Ha: median of a_PVOL188 - b_PVOL188 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL188 - b_PVOL188 = 0 vs.
 Ha: median of a_PVOL188 - b_PVOL188 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL188 - b_PVOL188 = 0 vs.
 Ha: median of a_PVOL188 - b_PVOL188 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL189 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL189 - b_PVOL189 = 0 vs.
 Ha: median of a_PVOL189 - b_PVOL189 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL189 - b_PVOL189 = 0 vs.
 Ha: median of a_PVOL189 - b_PVOL189 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL189 - b_PVOL189 = 0 vs.
 Ha: median of a_PVOL189 - b_PVOL189 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL190 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL190 - b_PVOL190 = 0 vs.

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Ha: median of a_PVOL190 - b_PVOL190 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL190 - b_PVOL190 = 0 vs.
 Ha: median of a_PVOL190 - b_PVOL190 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL190 - b_PVOL190 = 0 vs.
 Ha: median of a_PVOL190 - b_PVOL190 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL191 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PVOL191 - b_PVOL191 = 0 vs.
 Ha: median of a_PVOL191 - b_PVOL191 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL191 - b_PVOL191 = 0 vs.
 Ha: median of a_PVOL191 - b_PVOL191 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL191 - b_PVOL191 = 0 vs.
 Ha: median of a_PVOL191 - b_PVOL191 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL192 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PVOL192 - b_PVOL192 = 0 vs.
 Ha: median of a_PVOL192 - b_PVOL192 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL192 - b_PVOL192 = 0 vs.
 Ha: median of a_PVOL192 - b_PVOL192 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL192 - b_PVOL192 = 0 vs.
 Ha: median of a_PVOL192 - b_PVOL192 != 0

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Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL193 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL193 - b_PVOL193 = 0 vs.
 Ha: median of a_PVOL193 - b_PVOL193 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL193 - b_PVOL193 = 0 vs.
 Ha: median of a_PVOL193 - b_PVOL193 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL193 - b_PVOL193 = 0 vs.
 Ha: median of a_PVOL193 - b_PVOL193 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL194 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL194 - b_PVOL194 = 0 vs.
 Ha: median of a_PVOL194 - b_PVOL194 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL194 - b_PVOL194 = 0 vs.
 Ha: median of a_PVOL194 - b_PVOL194 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL194 - b_PVOL194 = 0 vs.
 Ha: median of a_PVOL194 - b_PVOL194 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL195 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1

2_Granular-level_Tax_Results

all | 1 1

One-sided tests:

Ho: median of a_PVOL195 - b_PVOL195 = 0 vs.
 Ha: median of a_PVOL195 - b_PVOL195 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL195 - b_PVOL195 = 0 vs.
 Ha: median of a_PVOL195 - b_PVOL195 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL195 - b_PVOL195 = 0 vs.
 Ha: median of a_PVOL195 - b_PVOL195 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PVOL196 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL196 - b_PVOL196 = 0 vs.
 Ha: median of a_PVOL196 - b_PVOL196 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL196 - b_PVOL196 = 0 vs.
 Ha: median of a_PVOL196 - b_PVOL196 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL196 - b_PVOL196 = 0 vs.
 Ha: median of a_PVOL196 - b_PVOL196 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PVOL197 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL197 - b_PVOL197 = 0 vs.
 Ha: median of a_PVOL197 - b_PVOL197 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL197 - b_PVOL197 = 0 vs.
 Ha: median of a_PVOL197 - b_PVOL197 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PVOL197 - b_PVOL197 = 0 vs.
 Ha: median of a_PVOL197 - b_PVOL197 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL198 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL198 - b_PVOL198 = 0 vs.
 Ha: median of a_PVOL198 - b_PVOL198 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL198 - b_PVOL198 = 0 vs.
 Ha: median of a_PVOL198 - b_PVOL198 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL198 - b_PVOL198 = 0 vs.
 Ha: median of a_PVOL198 - b_PVOL198 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL199 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PVOL199 - b_PVOL199 = 0 vs.
 Ha: median of a_PVOL199 - b_PVOL199 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL199 - b_PVOL199 = 0 vs.
 Ha: median of a_PVOL199 - b_PVOL199 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL199 - b_PVOL199 = 0 vs.
 Ha: median of a_PVOL199 - b_PVOL199 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL200 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	0	
negative		0	0	
zero		1	1	

all		1	1	

One-sided tests:

Ho: median of a_PVOL200 - b_PVOL200 = 0 vs.
 Ha: median of a_PVOL200 - b_PVOL200 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL200 - b_PVOL200 = 0 vs.
 Ha: median of a_PVOL200 - b_PVOL200 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL200 - b_PVOL200 = 0 vs.
 Ha: median of a_PVOL200 - b_PVOL200 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PVOL201 -----

Sign test

sign		observed	expected
positive		0	0
negative		0	0
zero		1	1

all		1	1

One-sided tests:

Ho: median of a_PVOL201 - b_PVOL201 = 0 vs.
 Ha: median of a_PVOL201 - b_PVOL201 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL201 - b_PVOL201 = 0 vs.
 Ha: median of a_PVOL201 - b_PVOL201 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL201 - b_PVOL201 = 0 vs.
 Ha: median of a_PVOL201 - b_PVOL201 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- IL -----

Sign test

sign		observed	expected
positive		0	0
negative		0	0
zero		1	1

all		1	1

One-sided tests:

Ho: median of a_IL - b_IL = 0 vs.
 Ha: median of a_IL - b_IL > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_IL - b_IL = 0 vs.
 Ha: median of a_IL - b_IL < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_IL - b_IL = 0 vs.
 Ha: median of a_IL - b_IL != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL203 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PVOL203 - b_PVOL203 = 0 vs.
 Ha: median of a_PVOL203 - b_PVOL203 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL203 - b_PVOL203 = 0 vs.
 Ha: median of a_PVOL203 - b_PVOL203 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL203 - b_PVOL203 = 0 vs.
 Ha: median of a_PVOL203 - b_PVOL203 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL204 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PVOL204 - b_PVOL204 = 0 vs.
 Ha: median of a_PVOL204 - b_PVOL204 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL204 - b_PVOL204 = 0 vs.
 Ha: median of a_PVOL204 - b_PVOL204 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL204 - b_PVOL204 = 0 vs.
 Ha: median of a_PVOL204 - b_PVOL204 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PVOL205 -----

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Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL205 - b_PVOL205 = 0 vs.
 Ha: median of a_PVOL205 - b_PVOL205 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL205 - b_PVOL205 = 0 vs.
 Ha: median of a_PVOL205 - b_PVOL205 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL205 - b_PVOL205 = 0 vs.
 Ha: median of a_PVOL205 - b_PVOL205 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL206 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL206 - b_PVOL206 = 0 vs.
 Ha: median of a_PVOL206 - b_PVOL206 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL206 - b_PVOL206 = 0 vs.
 Ha: median of a_PVOL206 - b_PVOL206 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL206 - b_PVOL206 = 0 vs.
 Ha: median of a_PVOL206 - b_PVOL206 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL207 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL207 - b_PVOL207 = 0 vs.

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Ha: median of a_PVOL207 - b_PVOL207 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL207 - b_PVOL207 = 0 vs.
 Ha: median of a_PVOL207 - b_PVOL207 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL207 - b_PVOL207 = 0 vs.
 Ha: median of a_PVOL207 - b_PVOL207 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL208 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL208 - b_PVOL208 = 0 vs.
 Ha: median of a_PVOL208 - b_PVOL208 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL208 - b_PVOL208 = 0 vs.
 Ha: median of a_PVOL208 - b_PVOL208 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL208 - b_PVOL208 = 0 vs.
 Ha: median of a_PVOL208 - b_PVOL208 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL209 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL209 - b_PVOL209 = 0 vs.
 Ha: median of a_PVOL209 - b_PVOL209 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000
 Ho: median of a_PVOL209 - b_PVOL209 = 0 vs.
 Ha: median of a_PVOL209 - b_PVOL209 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL209 - b_PVOL209 = 0 vs.
 Ha: median of a_PVOL209 - b_PVOL209 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL210 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL210 - b_PVOL210 = 0 vs.
 Ha: median of a_PVOL210 - b_PVOL210 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL210 - b_PVOL210 = 0 vs.
 Ha: median of a_PVOL210 - b_PVOL210 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL210 - b_PVOL210 = 0 vs.
 Ha: median of a_PVOL210 - b_PVOL210 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL211 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL211 - b_PVOL211 = 0 vs.
 Ha: median of a_PVOL211 - b_PVOL211 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL211 - b_PVOL211 = 0 vs.
 Ha: median of a_PVOL211 - b_PVOL211 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL211 - b_PVOL211 = 0 vs.
 Ha: median of a_PVOL211 - b_PVOL211 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL212 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0

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1 1

One-sided tests:

Ho: median of a_PVOL212 - b_PVOL212 = 0 vs.
 Ha: median of a_PVOL212 - b_PVOL212 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL212 - b_PVOL212 = 0 vs.
 Ha: median of a_PVOL212 - b_PVOL212 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL212 - b_PVOL212 = 0 vs.
 Ha: median of a_PVOL212 - b_PVOL212 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL213 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL213 - b_PVOL213 = 0 vs.
 Ha: median of a_PVOL213 - b_PVOL213 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL213 - b_PVOL213 = 0 vs.
 Ha: median of a_PVOL213 - b_PVOL213 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL213 - b_PVOL213 = 0 vs.
 Ha: median of a_PVOL213 - b_PVOL213 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL214 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL214 - b_PVOL214 = 0 vs.
 Ha: median of a_PVOL214 - b_PVOL214 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL214 - b_PVOL214 = 0 vs.
 Ha: median of a_PVOL214 - b_PVOL214 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PVOL214 - b_PVOL214 = 0 vs.
 Ha: median of a_PVOL214 - b_PVOL214 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL215 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL215 - b_PVOL215 = 0 vs.
 Ha: median of a_PVOL215 - b_PVOL215 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL215 - b_PVOL215 = 0 vs.
 Ha: median of a_PVOL215 - b_PVOL215 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL215 - b_PVOL215 = 0 vs.
 Ha: median of a_PVOL215 - b_PVOL215 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL216 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL216 - b_PVOL216 = 0 vs.
 Ha: median of a_PVOL216 - b_PVOL216 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL216 - b_PVOL216 = 0 vs.
 Ha: median of a_PVOL216 - b_PVOL216 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL216 - b_PVOL216 = 0 vs.
 Ha: median of a_PVOL216 - b_PVOL216 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL217 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PVOL217 - b_PVOL217 = 0 vs.
 Ha: median of a_PVOL217 - b_PVOL217 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL217 - b_PVOL217 = 0 vs.
 Ha: median of a_PVOL217 - b_PVOL217 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL217 - b_PVOL217 = 0 vs.
 Ha: median of a_PVOL217 - b_PVOL217 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL218 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PVOL218 - b_PVOL218 = 0 vs.
 Ha: median of a_PVOL218 - b_PVOL218 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL218 - b_PVOL218 = 0 vs.
 Ha: median of a_PVOL218 - b_PVOL218 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL218 - b_PVOL218 = 0 vs.
 Ha: median of a_PVOL218 - b_PVOL218 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL219 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PVOL219 - b_PVOL219 = 0 vs.
 Ha: median of a_PVOL219 - b_PVOL219 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL219 - b_PVOL219 = 0 vs.
 Ha: median of a_PVOL219 - b_PVOL219 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL219 - b_PVOL219 = 0 vs.
 Ha: median of a_PVOL219 - b_PVOL219 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL220 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL220 - b_PVOL220 = 0 vs.
 Ha: median of a_PVOL220 - b_PVOL220 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL220 - b_PVOL220 = 0 vs.
 Ha: median of a_PVOL220 - b_PVOL220 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL220 - b_PVOL220 = 0 vs.
 Ha: median of a_PVOL220 - b_PVOL220 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL221 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL221 - b_PVOL221 = 0 vs.
 Ha: median of a_PVOL221 - b_PVOL221 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL221 - b_PVOL221 = 0 vs.
 Ha: median of a_PVOL221 - b_PVOL221 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL221 - b_PVOL221 = 0 vs.
 Ha: median of a_PVOL221 - b_PVOL221 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL222 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL222 - b_PVOL222 = 0 vs.
 Ha: median of a_PVOL222 - b_PVOL222 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL222 - b_PVOL222 = 0 vs.
 Ha: median of a_PVOL222 - b_PVOL222 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL222 - b_PVOL222 = 0 vs.
 Ha: median of a_PVOL222 - b_PVOL222 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL223 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL223 - b_PVOL223 = 0 vs.
 Ha: median of a_PVOL223 - b_PVOL223 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL223 - b_PVOL223 = 0 vs.
 Ha: median of a_PVOL223 - b_PVOL223 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL223 - b_PVOL223 = 0 vs.
 Ha: median of a_PVOL223 - b_PVOL223 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL224 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL224 - b_PVOL224 = 0 vs.

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Ha: median of a_PVOL224 - b_PVOL224 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL224 - b_PVOL224 = 0 vs.
 Ha: median of a_PVOL224 - b_PVOL224 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL224 - b_PVOL224 = 0 vs.
 Ha: median of a_PVOL224 - b_PVOL224 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL225 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL225 - b_PVOL225 = 0 vs.
 Ha: median of a_PVOL225 - b_PVOL225 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PVOL225 - b_PVOL225 = 0 vs.
 Ha: median of a_PVOL225 - b_PVOL225 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL225 - b_PVOL225 = 0 vs.
 Ha: median of a_PVOL225 - b_PVOL225 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL226 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL226 - b_PVOL226 = 0 vs.
 Ha: median of a_PVOL226 - b_PVOL226 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PVOL226 - b_PVOL226 = 0 vs.
 Ha: median of a_PVOL226 - b_PVOL226 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL226 - b_PVOL226 = 0 vs.
 Ha: median of a_PVOL226 - b_PVOL226 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL227 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL227 - b_PVOL227 = 0 vs.
 Ha: median of a_PVOL227 - b_PVOL227 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL227 - b_PVOL227 = 0 vs.
 Ha: median of a_PVOL227 - b_PVOL227 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL227 - b_PVOL227 = 0 vs.
 Ha: median of a_PVOL227 - b_PVOL227 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL228 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL228 - b_PVOL228 = 0 vs.
 Ha: median of a_PVOL228 - b_PVOL228 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL228 - b_PVOL228 = 0 vs.
 Ha: median of a_PVOL228 - b_PVOL228 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL228 - b_PVOL228 = 0 vs.
 Ha: median of a_PVOL228 - b_PVOL228 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL229 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL229 - b_PVOL229 = 0 vs.
 Ha: median of a_PVOL229 - b_PVOL229 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL229 - b_PVOL229 = 0 vs.
 Ha: median of a_PVOL229 - b_PVOL229 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL229 - b_PVOL229 = 0 vs.
 Ha: median of a_PVOL229 - b_PVOL229 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL230 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL230 - b_PVOL230 = 0 vs.
 Ha: median of a_PVOL230 - b_PVOL230 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL230 - b_PVOL230 = 0 vs.
 Ha: median of a_PVOL230 - b_PVOL230 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL230 - b_PVOL230 = 0 vs.
 Ha: median of a_PVOL230 - b_PVOL230 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL231 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL231 - b_PVOL231 = 0 vs.
 Ha: median of a_PVOL231 - b_PVOL231 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL231 - b_PVOL231 = 0 vs.
 Ha: median of a_PVOL231 - b_PVOL231 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PVOL231 - b_PVOL231 = 0 vs.
 Ha: median of a_PVOL231 - b_PVOL231 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL232 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL232 - b_PVOL232 = 0 vs.
 Ha: median of a_PVOL232 - b_PVOL232 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL232 - b_PVOL232 = 0 vs.
 Ha: median of a_PVOL232 - b_PVOL232 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL232 - b_PVOL232 = 0 vs.
 Ha: median of a_PVOL232 - b_PVOL232 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL233 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL233 - b_PVOL233 = 0 vs.
 Ha: median of a_PVOL233 - b_PVOL233 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL233 - b_PVOL233 = 0 vs.
 Ha: median of a_PVOL233 - b_PVOL233 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL233 - b_PVOL233 = 0 vs.
 Ha: median of a_PVOL233 - b_PVOL233 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL234 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	6
negative	12	6
zero	0	0

all	12	12

One-sided tests:

Ho: median of a_PVOL234 - b_PVOL234 = 0 vs.

Ha: median of a_PVOL234 - b_PVOL234 > 0

Pr(#positive >= 0) =
Binomial(n = 12, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL234 - b_PVOL234 = 0 vs.

Ha: median of a_PVOL234 - b_PVOL234 < 0

Pr(#negative >= 12) =
Binomial(n = 12, x >= 12, p = 0.5) = 0.0002

Two-sided test:

Ho: median of a_PVOL234 - b_PVOL234 = 0 vs.

Ha: median of a_PVOL234 - b_PVOL234 != 0

Pr(#positive >= 12 or #negative >= 12) =
min(1, 2*Binomial(n = 12, x >= 12, p = 0.5)) = 0.0005

----- PVOL235 -----

Sign test

sign	observed	expected
positive	0	3
negative	6	3
zero	0	0

all	6	6

One-sided tests:

Ho: median of a_PVOL235 - b_PVOL235 = 0 vs.

Ha: median of a_PVOL235 - b_PVOL235 > 0

Pr(#positive >= 0) =
Binomial(n = 6, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL235 - b_PVOL235 = 0 vs.

Ha: median of a_PVOL235 - b_PVOL235 < 0

Pr(#negative >= 6) =
Binomial(n = 6, x >= 6, p = 0.5) = 0.0156

Two-sided test:

Ho: median of a_PVOL235 - b_PVOL235 = 0 vs.

Ha: median of a_PVOL235 - b_PVOL235 != 0

Pr(#positive >= 6 or #negative >= 6) =
min(1, 2*Binomial(n = 6, x >= 6, p = 0.5)) = 0.0313

----- PVOL236 -----

Sign test

sign	observed	expected
positive	0	3
negative	6	3
zero	0	0

all	6	6

One-sided tests:

Ho: median of a_PVOL236 - b_PVOL236 = 0 vs.

Ha: median of a_PVOL236 - b_PVOL236 > 0

Pr(#positive >= 0) =
Binomial(n = 6, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL236 - b_PVOL236 = 0 vs.
 Ha: median of a_PVOL236 - b_PVOL236 < 0
 Pr(#negative >= 6) =
 Binomial(n = 6, x >= 6, p = 0.5) = 0.0156

Two-sided test:
 Ho: median of a_PVOL236 - b_PVOL236 = 0 vs.
 Ha: median of a_PVOL236 - b_PVOL236 != 0
 Pr(#positive >= 6 or #negative >= 6) =
 min(1, 2*Binomial(n = 6, x >= 6, p = 0.5)) = 0.0313
 ----- PVOL237 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_PVOL237 - b_PVOL237 = 0 vs.
 Ha: median of a_PVOL237 - b_PVOL237 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PVOL237 - b_PVOL237 = 0 vs.
 Ha: median of a_PVOL237 - b_PVOL237 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_PVOL237 - b_PVOL237 = 0 vs.
 Ha: median of a_PVOL237 - b_PVOL237 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL238 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_PVOL238 - b_PVOL238 = 0 vs.
 Ha: median of a_PVOL238 - b_PVOL238 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PVOL238 - b_PVOL238 = 0 vs.
 Ha: median of a_PVOL238 - b_PVOL238 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_PVOL238 - b_PVOL238 = 0 vs.
 Ha: median of a_PVOL238 - b_PVOL238 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL239 -----

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Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL239 - b_PVOL239 = 0 vs.
 Ha: median of a_PVOL239 - b_PVOL239 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL239 - b_PVOL239 = 0 vs.
 Ha: median of a_PVOL239 - b_PVOL239 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_PVOL239 - b_PVOL239 = 0 vs.
 Ha: median of a_PVOL239 - b_PVOL239 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL240 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL240 - b_PVOL240 = 0 vs.
 Ha: median of a_PVOL240 - b_PVOL240 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL240 - b_PVOL240 = 0 vs.
 Ha: median of a_PVOL240 - b_PVOL240 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_PVOL240 - b_PVOL240 = 0 vs.
 Ha: median of a_PVOL240 - b_PVOL240 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL241 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL241 - b_PVOL241 = 0 vs.

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Ha: median of a_PVOL241 - b_PVOL241 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL241 - b_PVOL241 = 0 vs.
 Ha: median of a_PVOL241 - b_PVOL241 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL241 - b_PVOL241 = 0 vs.
 Ha: median of a_PVOL241 - b_PVOL241 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL242 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL242 - b_PVOL242 = 0 vs.
 Ha: median of a_PVOL242 - b_PVOL242 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL242 - b_PVOL242 = 0 vs.
 Ha: median of a_PVOL242 - b_PVOL242 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL242 - b_PVOL242 = 0 vs.
 Ha: median of a_PVOL242 - b_PVOL242 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL243 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL243 - b_PVOL243 = 0 vs.
 Ha: median of a_PVOL243 - b_PVOL243 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL243 - b_PVOL243 = 0 vs.
 Ha: median of a_PVOL243 - b_PVOL243 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL243 - b_PVOL243 = 0 vs.
 Ha: median of a_PVOL243 - b_PVOL243 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL244 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL244 - b_PVOL244 = 0 vs.
 Ha: median of a_PVOL244 - b_PVOL244 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL244 - b_PVOL244 = 0 vs.
 Ha: median of a_PVOL244 - b_PVOL244 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL244 - b_PVOL244 = 0 vs.
 Ha: median of a_PVOL244 - b_PVOL244 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL245 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL245 - b_PVOL245 = 0 vs.
 Ha: median of a_PVOL245 - b_PVOL245 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL245 - b_PVOL245 = 0 vs.
 Ha: median of a_PVOL245 - b_PVOL245 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL245 - b_PVOL245 = 0 vs.
 Ha: median of a_PVOL245 - b_PVOL245 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL246 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL246 - b_PVOL246 = 0 vs.
 Ha: median of a_PVOL246 - b_PVOL246 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL246 - b_PVOL246 = 0 vs.
 Ha: median of a_PVOL246 - b_PVOL246 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL246 - b_PVOL246 = 0 vs.
 Ha: median of a_PVOL246 - b_PVOL246 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL247 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL247 - b_PVOL247 = 0 vs.
 Ha: median of a_PVOL247 - b_PVOL247 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL247 - b_PVOL247 = 0 vs.
 Ha: median of a_PVOL247 - b_PVOL247 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL247 - b_PVOL247 = 0 vs.
 Ha: median of a_PVOL247 - b_PVOL247 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL248 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL248 - b_PVOL248 = 0 vs.
 Ha: median of a_PVOL248 - b_PVOL248 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL248 - b_PVOL248 = 0 vs.
 Ha: median of a_PVOL248 - b_PVOL248 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

2_Granular-level_Tax_Results

Two-sided test:

Ho: median of a_PVOL248 - b_PVOL248 = 0 vs.
 Ha: median of a_PVOL248 - b_PVOL248 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL249 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL249 - b_PVOL249 = 0 vs.
 Ha: median of a_PVOL249 - b_PVOL249 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL249 - b_PVOL249 = 0 vs.
 Ha: median of a_PVOL249 - b_PVOL249 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL249 - b_PVOL249 = 0 vs.
 Ha: median of a_PVOL249 - b_PVOL249 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL250 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL250 - b_PVOL250 = 0 vs.
 Ha: median of a_PVOL250 - b_PVOL250 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL250 - b_PVOL250 = 0 vs.
 Ha: median of a_PVOL250 - b_PVOL250 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL250 - b_PVOL250 = 0 vs.
 Ha: median of a_PVOL250 - b_PVOL250 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL251 -----

Sign test

sign	observed	expected
------	----------	----------

2_Granular-level_Tax_Results		
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL251 - b_PVOL251 = 0 vs.

Ha: median of a_PVOL251 - b_PVOL251 > 0

Pr(#positive >= 1) =

Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL251 - b_PVOL251 = 0 vs.

Ha: median of a_PVOL251 - b_PVOL251 < 0

Pr(#negative >= 0) =

Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL251 - b_PVOL251 = 0 vs.

Ha: median of a_PVOL251 - b_PVOL251 != 0

Pr(#positive >= 1 or #negative >= 1) =

min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL252 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL252 - b_PVOL252 = 0 vs.

Ha: median of a_PVOL252 - b_PVOL252 > 0

Pr(#positive >= 1) =

Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL252 - b_PVOL252 = 0 vs.

Ha: median of a_PVOL252 - b_PVOL252 < 0

Pr(#negative >= 0) =

Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL252 - b_PVOL252 = 0 vs.

Ha: median of a_PVOL252 - b_PVOL252 != 0

Pr(#positive >= 1 or #negative >= 1) =

min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL253 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL253 - b_PVOL253 = 0 vs.

Ha: median of a_PVOL253 - b_PVOL253 > 0

Pr(#positive >= 1) =

Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

2_Granular-level_Tax_Results

Ho: median of a_PVOL253 - b_PVOL253 = 0 vs.
 Ha: median of a_PVOL253 - b_PVOL253 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL253 - b_PVOL253 = 0 vs.
 Ha: median of a_PVOL253 - b_PVOL253 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL254 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL254 - b_PVOL254 = 0 vs.
 Ha: median of a_PVOL254 - b_PVOL254 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL254 - b_PVOL254 = 0 vs.
 Ha: median of a_PVOL254 - b_PVOL254 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL254 - b_PVOL254 = 0 vs.
 Ha: median of a_PVOL254 - b_PVOL254 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL255 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL255 - b_PVOL255 = 0 vs.
 Ha: median of a_PVOL255 - b_PVOL255 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL255 - b_PVOL255 = 0 vs.
 Ha: median of a_PVOL255 - b_PVOL255 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL255 - b_PVOL255 = 0 vs.
 Ha: median of a_PVOL255 - b_PVOL255 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL256 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL256 - b_PVOL256 = 0 vs.
 Ha: median of a_PVOL256 - b_PVOL256 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL256 - b_PVOL256 = 0 vs.
 Ha: median of a_PVOL256 - b_PVOL256 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL256 - b_PVOL256 = 0 vs.
 Ha: median of a_PVOL256 - b_PVOL256 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL257 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL257 - b_PVOL257 = 0 vs.
 Ha: median of a_PVOL257 - b_PVOL257 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL257 - b_PVOL257 = 0 vs.
 Ha: median of a_PVOL257 - b_PVOL257 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL257 - b_PVOL257 = 0 vs.
 Ha: median of a_PVOL257 - b_PVOL257 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL258 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL258 - b_PVOL258 = 0 vs.

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Ha: median of a_PVOL258 - b_PVOL258 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL258 - b_PVOL258 = 0 vs.
 Ha: median of a_PVOL258 - b_PVOL258 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL258 - b_PVOL258 = 0 vs.
 Ha: median of a_PVOL258 - b_PVOL258 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL259 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_PVOL259 - b_PVOL259 = 0 vs.
 Ha: median of a_PVOL259 - b_PVOL259 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL259 - b_PVOL259 = 0 vs.
 Ha: median of a_PVOL259 - b_PVOL259 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL259 - b_PVOL259 = 0 vs.
 Ha: median of a_PVOL259 - b_PVOL259 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL260 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_PVOL260 - b_PVOL260 = 0 vs.
 Ha: median of a_PVOL260 - b_PVOL260 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL260 - b_PVOL260 = 0 vs.
 Ha: median of a_PVOL260 - b_PVOL260 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL260 - b_PVOL260 = 0 vs.
 Ha: median of a_PVOL260 - b_PVOL260 != 0

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Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL261 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL261 - b_PVOL261 = 0 vs.
 Ha: median of a_PVOL261 - b_PVOL261 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL261 - b_PVOL261 = 0 vs.
 Ha: median of a_PVOL261 - b_PVOL261 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL261 - b_PVOL261 = 0 vs.
 Ha: median of a_PVOL261 - b_PVOL261 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL262 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL262 - b_PVOL262 = 0 vs.
 Ha: median of a_PVOL262 - b_PVOL262 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL262 - b_PVOL262 = 0 vs.
 Ha: median of a_PVOL262 - b_PVOL262 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL262 - b_PVOL262 = 0 vs.
 Ha: median of a_PVOL262 - b_PVOL262 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL263 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0

2_Granular-level_Tax_Results

all | 4 4

One-sided tests:

Ho: median of a_PVOL263 - b_PVOL263 = 0 vs.
 Ha: median of a_PVOL263 - b_PVOL263 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL263 - b_PVOL263 = 0 vs.
 Ha: median of a_PVOL263 - b_PVOL263 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL263 - b_PVOL263 = 0 vs.
 Ha: median of a_PVOL263 - b_PVOL263 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250

----- PVOL264 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL264 - b_PVOL264 = 0 vs.
 Ha: median of a_PVOL264 - b_PVOL264 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL264 - b_PVOL264 = 0 vs.
 Ha: median of a_PVOL264 - b_PVOL264 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL264 - b_PVOL264 = 0 vs.
 Ha: median of a_PVOL264 - b_PVOL264 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250

----- PVOL265 -----

Sign test

sign	observed	expected
positive	2	6
negative	10	6
zero	0	0
all	12	12

One-sided tests:

Ho: median of a_PVOL265 - b_PVOL265 = 0 vs.
 Ha: median of a_PVOL265 - b_PVOL265 > 0
 Pr(#positive >= 2) =
 Binomial(n = 12, x >= 2, p = 0.5) = 0.9968

Ho: median of a_PVOL265 - b_PVOL265 = 0 vs.
 Ha: median of a_PVOL265 - b_PVOL265 < 0
 Pr(#negative >= 10) =
 Binomial(n = 12, x >= 10, p = 0.5) = 0.0193

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Two-sided test:

Ho: median of a_PVOL265 - b_PVOL265 = 0 vs.
 Ha: median of a_PVOL265 - b_PVOL265 != 0
 Pr(#positive >= 10 or #negative >= 10) =
 min(1, 2*Binomial(n = 12, x >= 10, p = 0.5)) = 0.0386
 ----- PVOL266 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL266 - b_PVOL266 = 0 vs.
 Ha: median of a_PVOL266 - b_PVOL266 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL266 - b_PVOL266 = 0 vs.
 Ha: median of a_PVOL266 - b_PVOL266 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL266 - b_PVOL266 = 0 vs.
 Ha: median of a_PVOL266 - b_PVOL266 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL267 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL267 - b_PVOL267 = 0 vs.
 Ha: median of a_PVOL267 - b_PVOL267 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL267 - b_PVOL267 = 0 vs.
 Ha: median of a_PVOL267 - b_PVOL267 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL267 - b_PVOL267 = 0 vs.
 Ha: median of a_PVOL267 - b_PVOL267 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL268 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	4	5
negative	6	5
zero	2	2
-----+-----		
all	12	12

One-sided tests:

Ho: median of a_PVOL268 - b_PVOL268 = 0 vs.

Ha: median of a_PVOL268 - b_PVOL268 > 0

Pr(#positive >= 4) =

Binomial(n = 10, x >= 4, p = 0.5) = 0.8281

Ho: median of a_PVOL268 - b_PVOL268 = 0 vs.

Ha: median of a_PVOL268 - b_PVOL268 < 0

Pr(#negative >= 6) =

Binomial(n = 10, x >= 6, p = 0.5) = 0.3770

Two-sided test:

Ho: median of a_PVOL268 - b_PVOL268 = 0 vs.

Ha: median of a_PVOL268 - b_PVOL268 != 0

Pr(#positive >= 6 or #negative >= 6) =

min(1, 2*Binomial(n = 10, x >= 6, p = 0.5)) = 0.7539

----- PVOL269 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
-----+-----		
all	4	4

One-sided tests:

Ho: median of a_PVOL269 - b_PVOL269 = 0 vs.

Ha: median of a_PVOL269 - b_PVOL269 > 0

Pr(#positive >= 0) =

Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL269 - b_PVOL269 = 0 vs.

Ha: median of a_PVOL269 - b_PVOL269 < 0

Pr(#negative >= 4) =

Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL269 - b_PVOL269 = 0 vs.

Ha: median of a_PVOL269 - b_PVOL269 != 0

Pr(#positive >= 4 or #negative >= 4) =

min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250

----- PVOL270 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
-----+-----		
all	4	4

One-sided tests:

Ho: median of a_PVOL270 - b_PVOL270 = 0 vs.

Ha: median of a_PVOL270 - b_PVOL270 > 0

Pr(#positive >= 0) =

Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

2_Granular-level_Tax_Results

Ho: median of a_PVOL270 - b_PVOL270 = 0 vs.
 Ha: median of a_PVOL270 - b_PVOL270 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL270 - b_PVOL270 = 0 vs.
 Ha: median of a_PVOL270 - b_PVOL270 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL271 -----

Sign test

sign	observed	expected
positive	4	6
negative	8	6
zero	0	0
all	12	12

One-sided tests:
 Ho: median of a_PVOL271 - b_PVOL271 = 0 vs.
 Ha: median of a_PVOL271 - b_PVOL271 > 0
 Pr(#positive >= 4) =
 Binomial(n = 12, x >= 4, p = 0.5) = 0.9270

 Ho: median of a_PVOL271 - b_PVOL271 = 0 vs.
 Ha: median of a_PVOL271 - b_PVOL271 < 0
 Pr(#negative >= 8) =
 Binomial(n = 12, x >= 8, p = 0.5) = 0.1938

Two-sided test:
 Ho: median of a_PVOL271 - b_PVOL271 = 0 vs.
 Ha: median of a_PVOL271 - b_PVOL271 != 0
 Pr(#positive >= 8 or #negative >= 8) =
 min(1, 2*Binomial(n = 12, x >= 8, p = 0.5)) = 0.3877
 ----- PVOL272 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_PVOL272 - b_PVOL272 = 0 vs.
 Ha: median of a_PVOL272 - b_PVOL272 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PVOL272 - b_PVOL272 = 0 vs.
 Ha: median of a_PVOL272 - b_PVOL272 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL272 - b_PVOL272 = 0 vs.
 Ha: median of a_PVOL272 - b_PVOL272 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL273 -----

2_Granular-level_Tax_Results

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL273 - b_PVOL273 = 0 vs.
 Ha: median of a_PVOL273 - b_PVOL273 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL273 - b_PVOL273 = 0 vs.
 Ha: median of a_PVOL273 - b_PVOL273 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL273 - b_PVOL273 = 0 vs.
 Ha: median of a_PVOL273 - b_PVOL273 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL274 -----

Sign test

sign	observed	expected
positive	2	6
negative	10	6
zero	0	0
all	12	12

One-sided tests:

Ho: median of a_PVOL274 - b_PVOL274 = 0 vs.
 Ha: median of a_PVOL274 - b_PVOL274 > 0
 Pr(#positive >= 2) =
 Binomial(n = 12, x >= 2, p = 0.5) = 0.9968

Ho: median of a_PVOL274 - b_PVOL274 = 0 vs.
 Ha: median of a_PVOL274 - b_PVOL274 < 0
 Pr(#negative >= 10) =
 Binomial(n = 12, x >= 10, p = 0.5) = 0.0193

Two-sided test:

Ho: median of a_PVOL274 - b_PVOL274 = 0 vs.
 Ha: median of a_PVOL274 - b_PVOL274 != 0
 Pr(#positive >= 10 or #negative >= 10) =
 min(1, 2*Binomial(n = 12, x >= 10, p = 0.5)) = 0.0386
 ----- PVOL275 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL275 - b_PVOL275 = 0 vs.

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Ha: median of a_PVOL275 - b_PVOL275 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL275 - b_PVOL275 = 0 vs.
 Ha: median of a_PVOL275 - b_PVOL275 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL275 - b_PVOL275 = 0 vs.
 Ha: median of a_PVOL275 - b_PVOL275 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL276 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_PVOL276 - b_PVOL276 = 0 vs.
 Ha: median of a_PVOL276 - b_PVOL276 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL276 - b_PVOL276 = 0 vs.
 Ha: median of a_PVOL276 - b_PVOL276 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PVOL276 - b_PVOL276 = 0 vs.
 Ha: median of a_PVOL276 - b_PVOL276 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL277 -----

Sign test

sign	observed	expected
positive	5	5.5
negative	6	5.5
zero	1	1
all	12	12

One-sided tests:
 Ho: median of a_PVOL277 - b_PVOL277 = 0 vs.
 Ha: median of a_PVOL277 - b_PVOL277 > 0
 Pr(#positive >= 5) =
 Binomial(n = 11, x >= 5, p = 0.5) = 0.7256
 Ho: median of a_PVOL277 - b_PVOL277 = 0 vs.
 Ha: median of a_PVOL277 - b_PVOL277 < 0
 Pr(#negative >= 6) =
 Binomial(n = 11, x >= 6, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL277 - b_PVOL277 = 0 vs.
 Ha: median of a_PVOL277 - b_PVOL277 != 0

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Pr(#positive >= 6 or #negative >= 6) =
 min(1, 2*Binomial(n = 11, x >= 6, p = 0.5)) = 1.0000

----- PVOL278 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL278 - b_PVOL278 = 0 vs.
 Ha: median of a_PVOL278 - b_PVOL278 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL278 - b_PVOL278 = 0 vs.
 Ha: median of a_PVOL278 - b_PVOL278 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL278 - b_PVOL278 = 0 vs.
 Ha: median of a_PVOL278 - b_PVOL278 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250

----- PVOL279 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL279 - b_PVOL279 = 0 vs.
 Ha: median of a_PVOL279 - b_PVOL279 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL279 - b_PVOL279 = 0 vs.
 Ha: median of a_PVOL279 - b_PVOL279 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL279 - b_PVOL279 = 0 vs.
 Ha: median of a_PVOL279 - b_PVOL279 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250

----- PVOL280 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0

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One-sided tests:

Ho: median of a_PVOL280 - b_PVOL280 = 0 vs.
Ha: median of a_PVOL280 - b_PVOL280 > 0
Pr(#positive >= 0) =
Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL280 - b_PVOL280 = 0 vs.
Ha: median of a_PVOL280 - b_PVOL280 < 0
Pr(#negative >= 4) =
Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL280 - b_PVOL280 = 0 vs.
Ha: median of a_PVOL280 - b_PVOL280 != 0
Pr(#positive >= 4 or #negative >= 4) =
min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
----- PVOL281 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL281 - b_PVOL281 = 0 vs.
Ha: median of a_PVOL281 - b_PVOL281 > 0
Pr(#positive >= 0) =
Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL281 - b_PVOL281 = 0 vs.
Ha: median of a_PVOL281 - b_PVOL281 < 0
Pr(#negative >= 4) =
Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL281 - b_PVOL281 = 0 vs.
Ha: median of a_PVOL281 - b_PVOL281 != 0
Pr(#positive >= 4 or #negative >= 4) =
min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
----- PVOL282 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL282 - b_PVOL282 = 0 vs.
Ha: median of a_PVOL282 - b_PVOL282 > 0
Pr(#positive >= 0) =
Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL282 - b_PVOL282 = 0 vs.
Ha: median of a_PVOL282 - b_PVOL282 < 0
Pr(#negative >= 4) =
Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

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Two-sided test:

Ho: median of a_PVOL282 - b_PVOL282 = 0 vs.
 Ha: median of a_PVOL282 - b_PVOL282 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL283 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL283 - b_PVOL283 = 0 vs.
 Ha: median of a_PVOL283 - b_PVOL283 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL283 - b_PVOL283 = 0 vs.
 Ha: median of a_PVOL283 - b_PVOL283 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL283 - b_PVOL283 = 0 vs.
 Ha: median of a_PVOL283 - b_PVOL283 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL284 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL284 - b_PVOL284 = 0 vs.
 Ha: median of a_PVOL284 - b_PVOL284 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL284 - b_PVOL284 = 0 vs.
 Ha: median of a_PVOL284 - b_PVOL284 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL284 - b_PVOL284 = 0 vs.
 Ha: median of a_PVOL284 - b_PVOL284 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL285 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	2	
negative		4	2	
zero		0	0	

all		4	4	

One-sided tests:

Ho: median of a_PVOL285 - b_PVOL285 = 0 vs.
 Ha: median of a_PVOL285 - b_PVOL285 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL285 - b_PVOL285 = 0 vs.
 Ha: median of a_PVOL285 - b_PVOL285 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL285 - b_PVOL285 = 0 vs.
 Ha: median of a_PVOL285 - b_PVOL285 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL286 -----

Sign test

sign		observed	expected
positive		0	2
negative		4	2
zero		0	0

all		4	4

One-sided tests:

Ho: median of a_PVOL286 - b_PVOL286 = 0 vs.
 Ha: median of a_PVOL286 - b_PVOL286 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL286 - b_PVOL286 = 0 vs.
 Ha: median of a_PVOL286 - b_PVOL286 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL286 - b_PVOL286 = 0 vs.
 Ha: median of a_PVOL286 - b_PVOL286 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL287 -----

Sign test

sign		observed	expected
positive		0	2
negative		4	2
zero		0	0

all		4	4

One-sided tests:

Ho: median of a_PVOL287 - b_PVOL287 = 0 vs.
 Ha: median of a_PVOL287 - b_PVOL287 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL287 - b_PVOL287 = 0 vs.
 Ha: median of a_PVOL287 - b_PVOL287 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL287 - b_PVOL287 = 0 vs.
 Ha: median of a_PVOL287 - b_PVOL287 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL288 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL288 - b_PVOL288 = 0 vs.
 Ha: median of a_PVOL288 - b_PVOL288 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL288 - b_PVOL288 = 0 vs.
 Ha: median of a_PVOL288 - b_PVOL288 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL288 - b_PVOL288 = 0 vs.
 Ha: median of a_PVOL288 - b_PVOL288 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL289 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PVOL289 - b_PVOL289 = 0 vs.
 Ha: median of a_PVOL289 - b_PVOL289 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL289 - b_PVOL289 = 0 vs.
 Ha: median of a_PVOL289 - b_PVOL289 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PVOL289 - b_PVOL289 = 0 vs.
 Ha: median of a_PVOL289 - b_PVOL289 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PVOL290 -----

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Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL290 - b_PVOL290 = 0 vs.
 Ha: median of a_PVOL290 - b_PVOL290 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_PVOL290 - b_PVOL290 = 0 vs.
 Ha: median of a_PVOL290 - b_PVOL290 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_PVOL290 - b_PVOL290 = 0 vs.
 Ha: median of a_PVOL290 - b_PVOL290 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- PVOL291 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL291 - b_PVOL291 = 0 vs.
 Ha: median of a_PVOL291 - b_PVOL291 > 0
 Pr(#positive >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_PVOL291 - b_PVOL291 = 0 vs.
 Ha: median of a_PVOL291 - b_PVOL291 < 0
 Pr(#negative >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL291 - b_PVOL291 = 0 vs.
 Ha: median of a_PVOL291 - b_PVOL291 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL292 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL292 - b_PVOL292 = 0 vs.

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Ha: median of a_PVOL292 - b_PVOL292 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL292 - b_PVOL292 = 0 vs.
 Ha: median of a_PVOL292 - b_PVOL292 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL292 - b_PVOL292 = 0 vs.
 Ha: median of a_PVOL292 - b_PVOL292 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL293 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL293 - b_PVOL293 = 0 vs.
 Ha: median of a_PVOL293 - b_PVOL293 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL293 - b_PVOL293 = 0 vs.
 Ha: median of a_PVOL293 - b_PVOL293 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL293 - b_PVOL293 = 0 vs.
 Ha: median of a_PVOL293 - b_PVOL293 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL294 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL294 - b_PVOL294 = 0 vs.
 Ha: median of a_PVOL294 - b_PVOL294 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL294 - b_PVOL294 = 0 vs.
 Ha: median of a_PVOL294 - b_PVOL294 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL294 - b_PVOL294 = 0 vs.
 Ha: median of a_PVOL294 - b_PVOL294 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL295 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL295 - b_PVOL295 = 0 vs.
 Ha: median of a_PVOL295 - b_PVOL295 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL295 - b_PVOL295 = 0 vs.
 Ha: median of a_PVOL295 - b_PVOL295 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL295 - b_PVOL295 = 0 vs.
 Ha: median of a_PVOL295 - b_PVOL295 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL296 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL296 - b_PVOL296 = 0 vs.
 Ha: median of a_PVOL296 - b_PVOL296 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL296 - b_PVOL296 = 0 vs.
 Ha: median of a_PVOL296 - b_PVOL296 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL296 - b_PVOL296 = 0 vs.
 Ha: median of a_PVOL296 - b_PVOL296 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL297 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL297 - b_PVOL297 = 0 vs.
 Ha: median of a_PVOL297 - b_PVOL297 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL297 - b_PVOL297 = 0 vs.
 Ha: median of a_PVOL297 - b_PVOL297 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL297 - b_PVOL297 = 0 vs.
 Ha: median of a_PVOL297 - b_PVOL297 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL298 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL298 - b_PVOL298 = 0 vs.
 Ha: median of a_PVOL298 - b_PVOL298 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL298 - b_PVOL298 = 0 vs.
 Ha: median of a_PVOL298 - b_PVOL298 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL298 - b_PVOL298 = 0 vs.
 Ha: median of a_PVOL298 - b_PVOL298 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PVOL299 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL299 - b_PVOL299 = 0 vs.
 Ha: median of a_PVOL299 - b_PVOL299 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL299 - b_PVOL299 = 0 vs.
 Ha: median of a_PVOL299 - b_PVOL299 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PVOL299 - b_PVOL299 = 0 vs.
 Ha: median of a_PVOL299 - b_PVOL299 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL300 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL300 - b_PVOL300 = 0 vs.
 Ha: median of a_PVOL300 - b_PVOL300 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL300 - b_PVOL300 = 0 vs.
 Ha: median of a_PVOL300 - b_PVOL300 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL300 - b_PVOL300 = 0 vs.
 Ha: median of a_PVOL300 - b_PVOL300 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL301 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL301 - b_PVOL301 = 0 vs.
 Ha: median of a_PVOL301 - b_PVOL301 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL301 - b_PVOL301 = 0 vs.
 Ha: median of a_PVOL301 - b_PVOL301 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL301 - b_PVOL301 = 0 vs.
 Ha: median of a_PVOL301 - b_PVOL301 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL302 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		1		.5
negative		0		.5
zero		0		0

all		1		1

One-sided tests:

Ho: median of a_PVOL302 - b_PVOL302 = 0 vs.
 Ha: median of a_PVOL302 - b_PVOL302 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL302 - b_PVOL302 = 0 vs.
 Ha: median of a_PVOL302 - b_PVOL302 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL302 - b_PVOL302 = 0 vs.
 Ha: median of a_PVOL302 - b_PVOL302 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL303 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL303 - b_PVOL303 = 0 vs.
 Ha: median of a_PVOL303 - b_PVOL303 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL303 - b_PVOL303 = 0 vs.
 Ha: median of a_PVOL303 - b_PVOL303 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL303 - b_PVOL303 = 0 vs.
 Ha: median of a_PVOL303 - b_PVOL303 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL304 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL304 - b_PVOL304 = 0 vs.
 Ha: median of a_PVOL304 - b_PVOL304 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL304 - b_PVOL304 = 0 vs.
 Ha: median of a_PVOL304 - b_PVOL304 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL304 - b_PVOL304 = 0 vs.
 Ha: median of a_PVOL304 - b_PVOL304 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL305 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL305 - b_PVOL305 = 0 vs.
 Ha: median of a_PVOL305 - b_PVOL305 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL305 - b_PVOL305 = 0 vs.
 Ha: median of a_PVOL305 - b_PVOL305 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL305 - b_PVOL305 = 0 vs.
 Ha: median of a_PVOL305 - b_PVOL305 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL306 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL306 - b_PVOL306 = 0 vs.
 Ha: median of a_PVOL306 - b_PVOL306 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL306 - b_PVOL306 = 0 vs.
 Ha: median of a_PVOL306 - b_PVOL306 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL306 - b_PVOL306 = 0 vs.
 Ha: median of a_PVOL306 - b_PVOL306 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL307 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL307 - b_PVOL307 = 0 vs.
 Ha: median of a_PVOL307 - b_PVOL307 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL307 - b_PVOL307 = 0 vs.
 Ha: median of a_PVOL307 - b_PVOL307 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL307 - b_PVOL307 = 0 vs.
 Ha: median of a_PVOL307 - b_PVOL307 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL308 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL308 - b_PVOL308 = 0 vs.
 Ha: median of a_PVOL308 - b_PVOL308 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL308 - b_PVOL308 = 0 vs.
 Ha: median of a_PVOL308 - b_PVOL308 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL308 - b_PVOL308 = 0 vs.
 Ha: median of a_PVOL308 - b_PVOL308 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL309 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL309 - b_PVOL309 = 0 vs.

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Ha: median of a_PVOL309 - b_PVOL309 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL309 - b_PVOL309 = 0 vs.
 Ha: median of a_PVOL309 - b_PVOL309 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL309 - b_PVOL309 = 0 vs.
 Ha: median of a_PVOL309 - b_PVOL309 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL310 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL310 - b_PVOL310 = 0 vs.
 Ha: median of a_PVOL310 - b_PVOL310 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL310 - b_PVOL310 = 0 vs.
 Ha: median of a_PVOL310 - b_PVOL310 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL310 - b_PVOL310 = 0 vs.
 Ha: median of a_PVOL310 - b_PVOL310 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL311 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL311 - b_PVOL311 = 0 vs.
 Ha: median of a_PVOL311 - b_PVOL311 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL311 - b_PVOL311 = 0 vs.
 Ha: median of a_PVOL311 - b_PVOL311 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL311 - b_PVOL311 = 0 vs.
 Ha: median of a_PVOL311 - b_PVOL311 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL312 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL312 - b_PVOL312 = 0 vs.
 Ha: median of a_PVOL312 - b_PVOL312 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL312 - b_PVOL312 = 0 vs.
 Ha: median of a_PVOL312 - b_PVOL312 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL312 - b_PVOL312 = 0 vs.
 Ha: median of a_PVOL312 - b_PVOL312 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL313 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL313 - b_PVOL313 = 0 vs.
 Ha: median of a_PVOL313 - b_PVOL313 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL313 - b_PVOL313 = 0 vs.
 Ha: median of a_PVOL313 - b_PVOL313 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL313 - b_PVOL313 = 0 vs.
 Ha: median of a_PVOL313 - b_PVOL313 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL314 -----

Sign test

sign	observed	expected
positive	0	3
negative	6	3
zero	0	0

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6 6

One-sided tests:

Ho: median of a_PVOL314 - b_PVOL314 = 0 vs.
Ha: median of a_PVOL314 - b_PVOL314 > 0
Pr(#positive >= 0) =
Binomial(n = 6, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL314 - b_PVOL314 = 0 vs.
Ha: median of a_PVOL314 - b_PVOL314 < 0
Pr(#negative >= 6) =
Binomial(n = 6, x >= 6, p = 0.5) = 0.0156

Two-sided test:

Ho: median of a_PVOL314 - b_PVOL314 = 0 vs.
Ha: median of a_PVOL314 - b_PVOL314 != 0
Pr(#positive >= 6 or #negative >= 6) =
min(1, 2*Binomial(n = 6, x >= 6, p = 0.5)) = 0.0313
----- PVOL315 -----

Sign test

sign	observed	expected
positive	6	3
negative	0	3
zero	0	0
all	6	6

One-sided tests:

Ho: median of a_PVOL315 - b_PVOL315 = 0 vs.
Ha: median of a_PVOL315 - b_PVOL315 > 0
Pr(#positive >= 6) =
Binomial(n = 6, x >= 6, p = 0.5) = 0.0156

Ho: median of a_PVOL315 - b_PVOL315 = 0 vs.
Ha: median of a_PVOL315 - b_PVOL315 < 0
Pr(#negative >= 0) =
Binomial(n = 6, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL315 - b_PVOL315 = 0 vs.
Ha: median of a_PVOL315 - b_PVOL315 != 0
Pr(#positive >= 6 or #negative >= 6) =
min(1, 2*Binomial(n = 6, x >= 6, p = 0.5)) = 0.0313
----- PVOL316 -----

Sign test

sign	observed	expected
positive	0	3
negative	6	3
zero	0	0
all	6	6

One-sided tests:

Ho: median of a_PVOL316 - b_PVOL316 = 0 vs.
Ha: median of a_PVOL316 - b_PVOL316 > 0
Pr(#positive >= 0) =
Binomial(n = 6, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL316 - b_PVOL316 = 0 vs.
Ha: median of a_PVOL316 - b_PVOL316 < 0
Pr(#negative >= 6) =
Binomial(n = 6, x >= 6, p = 0.5) = 0.0156

2_Granular-level_Tax_Results

Two-sided test:

Ho: median of a_PVOL316 - b_PVOL316 = 0 vs.
 Ha: median of a_PVOL316 - b_PVOL316 != 0
 Pr(#positive >= 6 or #negative >= 6) =
 min(1, 2*Binomial(n = 6, x >= 6, p = 0.5)) = 0.0313
 ----- PVOL317 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_PVOL317 - b_PVOL317 = 0 vs.
 Ha: median of a_PVOL317 - b_PVOL317 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL317 - b_PVOL317 = 0 vs.
 Ha: median of a_PVOL317 - b_PVOL317 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_PVOL317 - b_PVOL317 = 0 vs.
 Ha: median of a_PVOL317 - b_PVOL317 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL318 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PVOL318 - b_PVOL318 = 0 vs.
 Ha: median of a_PVOL318 - b_PVOL318 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL318 - b_PVOL318 = 0 vs.
 Ha: median of a_PVOL318 - b_PVOL318 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PVOL318 - b_PVOL318 = 0 vs.
 Ha: median of a_PVOL318 - b_PVOL318 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PVOL319 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PVOL319 - b_PVOL319 = 0 vs.
 Ha: median of a_PVOL319 - b_PVOL319 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL319 - b_PVOL319 = 0 vs.
 Ha: median of a_PVOL319 - b_PVOL319 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL319 - b_PVOL319 = 0 vs.
 Ha: median of a_PVOL319 - b_PVOL319 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL320 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0

all	3	3

One-sided tests:

Ho: median of a_PVOL320 - b_PVOL320 = 0 vs.
 Ha: median of a_PVOL320 - b_PVOL320 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL320 - b_PVOL320 = 0 vs.
 Ha: median of a_PVOL320 - b_PVOL320 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_PVOL320 - b_PVOL320 = 0 vs.
 Ha: median of a_PVOL320 - b_PVOL320 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL321 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0

all	3	3

One-sided tests:

Ho: median of a_PVOL321 - b_PVOL321 = 0 vs.
 Ha: median of a_PVOL321 - b_PVOL321 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL321 - b_PVOL321 = 0 vs.
 Ha: median of a_PVOL321 - b_PVOL321 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_PVOL321 - b_PVOL321 = 0 vs.
 Ha: median of a_PVOL321 - b_PVOL321 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL322 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_PVOL322 - b_PVOL322 = 0 vs.
 Ha: median of a_PVOL322 - b_PVOL322 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL322 - b_PVOL322 = 0 vs.
 Ha: median of a_PVOL322 - b_PVOL322 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_PVOL322 - b_PVOL322 = 0 vs.
 Ha: median of a_PVOL322 - b_PVOL322 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL323 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_PVOL323 - b_PVOL323 = 0 vs.
 Ha: median of a_PVOL323 - b_PVOL323 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL323 - b_PVOL323 = 0 vs.
 Ha: median of a_PVOL323 - b_PVOL323 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_PVOL323 - b_PVOL323 = 0 vs.
 Ha: median of a_PVOL323 - b_PVOL323 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- PVOL324 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL324 - b_PVOL324 = 0 vs.
 Ha: median of a_PVOL324 - b_PVOL324 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL324 - b_PVOL324 = 0 vs.
 Ha: median of a_PVOL324 - b_PVOL324 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL324 - b_PVOL324 = 0 vs.
 Ha: median of a_PVOL324 - b_PVOL324 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL325 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL325 - b_PVOL325 = 0 vs.
 Ha: median of a_PVOL325 - b_PVOL325 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL325 - b_PVOL325 = 0 vs.
 Ha: median of a_PVOL325 - b_PVOL325 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL325 - b_PVOL325 = 0 vs.
 Ha: median of a_PVOL325 - b_PVOL325 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL326 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL326 - b_PVOL326 = 0 vs.

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Ha: median of a_PVOL326 - b_PVOL326 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL326 - b_PVOL326 = 0 vs.
 Ha: median of a_PVOL326 - b_PVOL326 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL326 - b_PVOL326 = 0 vs.
 Ha: median of a_PVOL326 - b_PVOL326 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL327 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL327 - b_PVOL327 = 0 vs.
 Ha: median of a_PVOL327 - b_PVOL327 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL327 - b_PVOL327 = 0 vs.
 Ha: median of a_PVOL327 - b_PVOL327 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL327 - b_PVOL327 = 0 vs.
 Ha: median of a_PVOL327 - b_PVOL327 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL328 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL328 - b_PVOL328 = 0 vs.
 Ha: median of a_PVOL328 - b_PVOL328 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL328 - b_PVOL328 = 0 vs.
 Ha: median of a_PVOL328 - b_PVOL328 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL328 - b_PVOL328 = 0 vs.
 Ha: median of a_PVOL328 - b_PVOL328 != 0

2_Granular-level_Tax_Results

Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL329 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL329 - b_PVOL329 = 0 vs.
 Ha: median of a_PVOL329 - b_PVOL329 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL329 - b_PVOL329 = 0 vs.
 Ha: median of a_PVOL329 - b_PVOL329 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL329 - b_PVOL329 = 0 vs.
 Ha: median of a_PVOL329 - b_PVOL329 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL330 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL330 - b_PVOL330 = 0 vs.
 Ha: median of a_PVOL330 - b_PVOL330 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL330 - b_PVOL330 = 0 vs.
 Ha: median of a_PVOL330 - b_PVOL330 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL330 - b_PVOL330 = 0 vs.
 Ha: median of a_PVOL330 - b_PVOL330 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL331 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL331 - b_PVOL331 = 0 vs.
Ha: median of a_PVOL331 - b_PVOL331 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL331 - b_PVOL331 = 0 vs.
Ha: median of a_PVOL331 - b_PVOL331 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL331 - b_PVOL331 = 0 vs.
Ha: median of a_PVOL331 - b_PVOL331 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL332 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL332 - b_PVOL332 = 0 vs.
Ha: median of a_PVOL332 - b_PVOL332 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL332 - b_PVOL332 = 0 vs.
Ha: median of a_PVOL332 - b_PVOL332 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL332 - b_PVOL332 = 0 vs.
Ha: median of a_PVOL332 - b_PVOL332 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PVOL333 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL333 - b_PVOL333 = 0 vs.
Ha: median of a_PVOL333 - b_PVOL333 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL333 - b_PVOL333 = 0 vs.
Ha: median of a_PVOL333 - b_PVOL333 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PVOL333 - b_PVOL333 = 0 vs.
 Ha: median of a_PVOL333 - b_PVOL333 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL334 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL334 - b_PVOL334 = 0 vs.
 Ha: median of a_PVOL334 - b_PVOL334 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL334 - b_PVOL334 = 0 vs.
 Ha: median of a_PVOL334 - b_PVOL334 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL334 - b_PVOL334 = 0 vs.
 Ha: median of a_PVOL334 - b_PVOL334 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL335 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL335 - b_PVOL335 = 0 vs.
 Ha: median of a_PVOL335 - b_PVOL335 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL335 - b_PVOL335 = 0 vs.
 Ha: median of a_PVOL335 - b_PVOL335 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL335 - b_PVOL335 = 0 vs.
 Ha: median of a_PVOL335 - b_PVOL335 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL336 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_PVOL336 - b_PVOL336 = 0 vs.
 Ha: median of a_PVOL336 - b_PVOL336 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL336 - b_PVOL336 = 0 vs.
 Ha: median of a_PVOL336 - b_PVOL336 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL336 - b_PVOL336 = 0 vs.
 Ha: median of a_PVOL336 - b_PVOL336 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL337 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL337 - b_PVOL337 = 0 vs.
 Ha: median of a_PVOL337 - b_PVOL337 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL337 - b_PVOL337 = 0 vs.
 Ha: median of a_PVOL337 - b_PVOL337 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL337 - b_PVOL337 = 0 vs.
 Ha: median of a_PVOL337 - b_PVOL337 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL338 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL338 - b_PVOL338 = 0 vs.
 Ha: median of a_PVOL338 - b_PVOL338 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PVOL338 - b_PVOL338 = 0 vs.
 Ha: median of a_PVOL338 - b_PVOL338 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL338 - b_PVOL338 = 0 vs.
 Ha: median of a_PVOL338 - b_PVOL338 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL339 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL339 - b_PVOL339 = 0 vs.
 Ha: median of a_PVOL339 - b_PVOL339 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL339 - b_PVOL339 = 0 vs.
 Ha: median of a_PVOL339 - b_PVOL339 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL339 - b_PVOL339 = 0 vs.
 Ha: median of a_PVOL339 - b_PVOL339 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL340 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL340 - b_PVOL340 = 0 vs.
 Ha: median of a_PVOL340 - b_PVOL340 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL340 - b_PVOL340 = 0 vs.
 Ha: median of a_PVOL340 - b_PVOL340 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL340 - b_PVOL340 = 0 vs.
 Ha: median of a_PVOL340 - b_PVOL340 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL341 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL341 - b_PVOL341 = 0 vs.
 Ha: median of a_PVOL341 - b_PVOL341 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL341 - b_PVOL341 = 0 vs.
 Ha: median of a_PVOL341 - b_PVOL341 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL341 - b_PVOL341 = 0 vs.
 Ha: median of a_PVOL341 - b_PVOL341 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL342 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL342 - b_PVOL342 = 0 vs.
 Ha: median of a_PVOL342 - b_PVOL342 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL342 - b_PVOL342 = 0 vs.
 Ha: median of a_PVOL342 - b_PVOL342 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL342 - b_PVOL342 = 0 vs.
 Ha: median of a_PVOL342 - b_PVOL342 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL343 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL343 - b_PVOL343 = 0 vs.

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Ha: median of a_PVOL343 - b_PVOL343 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL343 - b_PVOL343 = 0 vs.
 Ha: median of a_PVOL343 - b_PVOL343 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL343 - b_PVOL343 = 0 vs.
 Ha: median of a_PVOL343 - b_PVOL343 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL344 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL344 - b_PVOL344 = 0 vs.
 Ha: median of a_PVOL344 - b_PVOL344 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL344 - b_PVOL344 = 0 vs.
 Ha: median of a_PVOL344 - b_PVOL344 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL344 - b_PVOL344 = 0 vs.
 Ha: median of a_PVOL344 - b_PVOL344 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL345 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL345 - b_PVOL345 = 0 vs.
 Ha: median of a_PVOL345 - b_PVOL345 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PVOL345 - b_PVOL345 = 0 vs.
 Ha: median of a_PVOL345 - b_PVOL345 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PVOL345 - b_PVOL345 = 0 vs.
 Ha: median of a_PVOL345 - b_PVOL345 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL346 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL346 - b_PVOL346 = 0 vs.
 Ha: median of a_PVOL346 - b_PVOL346 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL346 - b_PVOL346 = 0 vs.
 Ha: median of a_PVOL346 - b_PVOL346 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL346 - b_PVOL346 = 0 vs.
 Ha: median of a_PVOL346 - b_PVOL346 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL347 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL347 - b_PVOL347 = 0 vs.
 Ha: median of a_PVOL347 - b_PVOL347 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL347 - b_PVOL347 = 0 vs.
 Ha: median of a_PVOL347 - b_PVOL347 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL347 - b_PVOL347 = 0 vs.
 Ha: median of a_PVOL347 - b_PVOL347 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL348 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PVOL348 - b_PVOL348 = 0 vs.
 Ha: median of a_PVOL348 - b_PVOL348 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL348 - b_PVOL348 = 0 vs.
 Ha: median of a_PVOL348 - b_PVOL348 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL348 - b_PVOL348 = 0 vs.
 Ha: median of a_PVOL348 - b_PVOL348 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL349 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL349 - b_PVOL349 = 0 vs.
 Ha: median of a_PVOL349 - b_PVOL349 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL349 - b_PVOL349 = 0 vs.
 Ha: median of a_PVOL349 - b_PVOL349 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL349 - b_PVOL349 = 0 vs.
 Ha: median of a_PVOL349 - b_PVOL349 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL350 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL350 - b_PVOL350 = 0 vs.
 Ha: median of a_PVOL350 - b_PVOL350 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL350 - b_PVOL350 = 0 vs.
 Ha: median of a_PVOL350 - b_PVOL350 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PVOL350 - b_PVOL350 = 0 vs.
 Ha: median of a_PVOL350 - b_PVOL350 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL351 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL351 - b_PVOL351 = 0 vs.
 Ha: median of a_PVOL351 - b_PVOL351 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL351 - b_PVOL351 = 0 vs.
 Ha: median of a_PVOL351 - b_PVOL351 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL351 - b_PVOL351 = 0 vs.
 Ha: median of a_PVOL351 - b_PVOL351 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL352 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL352 - b_PVOL352 = 0 vs.
 Ha: median of a_PVOL352 - b_PVOL352 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL352 - b_PVOL352 = 0 vs.
 Ha: median of a_PVOL352 - b_PVOL352 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL352 - b_PVOL352 = 0 vs.
 Ha: median of a_PVOL352 - b_PVOL352 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL353 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		1		.5
negative		0		.5
zero		0		0

all		1		1

One-sided tests:

Ho: median of a_PVOL353 - b_PVOL353 = 0 vs.
 Ha: median of a_PVOL353 - b_PVOL353 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL353 - b_PVOL353 = 0 vs.
 Ha: median of a_PVOL353 - b_PVOL353 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL353 - b_PVOL353 = 0 vs.
 Ha: median of a_PVOL353 - b_PVOL353 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL354 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL354 - b_PVOL354 = 0 vs.
 Ha: median of a_PVOL354 - b_PVOL354 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL354 - b_PVOL354 = 0 vs.
 Ha: median of a_PVOL354 - b_PVOL354 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PVOL354 - b_PVOL354 = 0 vs.
 Ha: median of a_PVOL354 - b_PVOL354 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL355 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PVOL355 - b_PVOL355 = 0 vs.
 Ha: median of a_PVOL355 - b_PVOL355 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Ho: median of a_PVOL355 - b_PVOL355 = 0 vs.
 Ha: median of a_PVOL355 - b_PVOL355 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL355 - b_PVOL355 = 0 vs.
 Ha: median of a_PVOL355 - b_PVOL355 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL356 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL356 - b_PVOL356 = 0 vs.
 Ha: median of a_PVOL356 - b_PVOL356 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL356 - b_PVOL356 = 0 vs.
 Ha: median of a_PVOL356 - b_PVOL356 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL356 - b_PVOL356 = 0 vs.
 Ha: median of a_PVOL356 - b_PVOL356 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL357 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PVOL357 - b_PVOL357 = 0 vs.
 Ha: median of a_PVOL357 - b_PVOL357 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PVOL357 - b_PVOL357 = 0 vs.
 Ha: median of a_PVOL357 - b_PVOL357 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PVOL357 - b_PVOL357 = 0 vs.
 Ha: median of a_PVOL357 - b_PVOL357 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL358 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL358 - b_PVOL358 = 0 vs.
 Ha: median of a_PVOL358 - b_PVOL358 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL358 - b_PVOL358 = 0 vs.
 Ha: median of a_PVOL358 - b_PVOL358 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL358 - b_PVOL358 = 0 vs.
 Ha: median of a_PVOL358 - b_PVOL358 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PVOL359 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PVOL359 - b_PVOL359 = 0 vs.
 Ha: median of a_PVOL359 - b_PVOL359 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PVOL359 - b_PVOL359 = 0 vs.
 Ha: median of a_PVOL359 - b_PVOL359 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PVOL359 - b_PVOL359 = 0 vs.
 Ha: median of a_PVOL359 - b_PVOL359 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL001 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL001 - b_PCAL001 = 0 vs.

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Ha: median of a_PCAL001 - b_PCAL001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL001 - b_PCAL001 = 0 vs.
 Ha: median of a_PCAL001 - b_PCAL001 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL001 - b_PCAL001 = 0 vs.
 Ha: median of a_PCAL001 - b_PCAL001 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL002 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL002 - b_PCAL002 = 0 vs.
 Ha: median of a_PCAL002 - b_PCAL002 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PCAL002 - b_PCAL002 = 0 vs.
 Ha: median of a_PCAL002 - b_PCAL002 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL002 - b_PCAL002 = 0 vs.
 Ha: median of a_PCAL002 - b_PCAL002 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL003 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL003 - b_PCAL003 = 0 vs.
 Ha: median of a_PCAL003 - b_PCAL003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_PCAL003 - b_PCAL003 = 0 vs.
 Ha: median of a_PCAL003 - b_PCAL003 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL003 - b_PCAL003 = 0 vs.
 Ha: median of a_PCAL003 - b_PCAL003 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL004 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL004 - b_PCAL004 = 0 vs.
 Ha: median of a_PCAL004 - b_PCAL004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL004 - b_PCAL004 = 0 vs.
 Ha: median of a_PCAL004 - b_PCAL004 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL004 - b_PCAL004 = 0 vs.
 Ha: median of a_PCAL004 - b_PCAL004 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL005 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL005 - b_PCAL005 = 0 vs.
 Ha: median of a_PCAL005 - b_PCAL005 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL005 - b_PCAL005 = 0 vs.
 Ha: median of a_PCAL005 - b_PCAL005 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL005 - b_PCAL005 = 0 vs.
 Ha: median of a_PCAL005 - b_PCAL005 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL006 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0

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One-sided tests:

Ho: median of a_PCAL006 - b_PCAL006 = 0 vs.
Ha: median of a_PCAL006 - b_PCAL006 > 0
Pr(#positive >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL006 - b_PCAL006 = 0 vs.
Ha: median of a_PCAL006 - b_PCAL006 < 0
Pr(#negative >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL006 - b_PCAL006 = 0 vs.
Ha: median of a_PCAL006 - b_PCAL006 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL007 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL007 - b_PCAL007 = 0 vs.
Ha: median of a_PCAL007 - b_PCAL007 > 0
Pr(#positive >= 0) =
Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL007 - b_PCAL007 = 0 vs.
Ha: median of a_PCAL007 - b_PCAL007 < 0
Pr(#negative >= 2) =
Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL007 - b_PCAL007 = 0 vs.
Ha: median of a_PCAL007 - b_PCAL007 != 0
Pr(#positive >= 2 or #negative >= 2) =
min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PCAL008 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL008 - b_PCAL008 = 0 vs.
Ha: median of a_PCAL008 - b_PCAL008 > 0
Pr(#positive >= 0) =
Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL008 - b_PCAL008 = 0 vs.
Ha: median of a_PCAL008 - b_PCAL008 < 0
Pr(#negative >= 2) =
Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

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Two-sided test:

Ho: median of a_PCAL008 - b_PCAL008 = 0 vs.
 Ha: median of a_PCAL008 - b_PCAL008 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL009 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL009 - b_PCAL009 = 0 vs.
 Ha: median of a_PCAL009 - b_PCAL009 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL009 - b_PCAL009 = 0 vs.
 Ha: median of a_PCAL009 - b_PCAL009 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL009 - b_PCAL009 = 0 vs.
 Ha: median of a_PCAL009 - b_PCAL009 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL010 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL010 - b_PCAL010 = 0 vs.
 Ha: median of a_PCAL010 - b_PCAL010 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL010 - b_PCAL010 = 0 vs.
 Ha: median of a_PCAL010 - b_PCAL010 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL010 - b_PCAL010 = 0 vs.
 Ha: median of a_PCAL010 - b_PCAL010 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL011 -----

Sign test

sign	observed	expected
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positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PCAL011 - b_PCAL011 = 0 vs.
 Ha: median of a_PCAL011 - b_PCAL011 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL011 - b_PCAL011 = 0 vs.
 Ha: median of a_PCAL011 - b_PCAL011 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL011 - b_PCAL011 = 0 vs.
 Ha: median of a_PCAL011 - b_PCAL011 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PCAL012 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PCAL012 - b_PCAL012 = 0 vs.
 Ha: median of a_PCAL012 - b_PCAL012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL012 - b_PCAL012 = 0 vs.
 Ha: median of a_PCAL012 - b_PCAL012 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL012 - b_PCAL012 = 0 vs.
 Ha: median of a_PCAL012 - b_PCAL012 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PCAL013 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL013 - b_PCAL013 = 0 vs.
 Ha: median of a_PCAL013 - b_PCAL013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PCAL013 - b_PCAL013 = 0 vs.
 Ha: median of a_PCAL013 - b_PCAL013 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL013 - b_PCAL013 = 0 vs.
 Ha: median of a_PCAL013 - b_PCAL013 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL014 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL014 - b_PCAL014 = 0 vs.
 Ha: median of a_PCAL014 - b_PCAL014 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL014 - b_PCAL014 = 0 vs.
 Ha: median of a_PCAL014 - b_PCAL014 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL014 - b_PCAL014 = 0 vs.
 Ha: median of a_PCAL014 - b_PCAL014 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL015 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL015 - b_PCAL015 = 0 vs.
 Ha: median of a_PCAL015 - b_PCAL015 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL015 - b_PCAL015 = 0 vs.
 Ha: median of a_PCAL015 - b_PCAL015 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL015 - b_PCAL015 = 0 vs.
 Ha: median of a_PCAL015 - b_PCAL015 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL016 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL016 - b_PCAL016 = 0 vs.
 Ha: median of a_PCAL016 - b_PCAL016 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL016 - b_PCAL016 = 0 vs.
 Ha: median of a_PCAL016 - b_PCAL016 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL016 - b_PCAL016 = 0 vs.
 Ha: median of a_PCAL016 - b_PCAL016 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL017 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL017 - b_PCAL017 = 0 vs.
 Ha: median of a_PCAL017 - b_PCAL017 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL017 - b_PCAL017 = 0 vs.
 Ha: median of a_PCAL017 - b_PCAL017 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL017 - b_PCAL017 = 0 vs.
 Ha: median of a_PCAL017 - b_PCAL017 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL018 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL018 - b_PCAL018 = 0 vs.

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Ha: median of a_PCAL018 - b_PCAL018 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL018 - b_PCAL018 = 0 vs.
 Ha: median of a_PCAL018 - b_PCAL018 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL018 - b_PCAL018 = 0 vs.
 Ha: median of a_PCAL018 - b_PCAL018 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL019 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_PCAL019 - b_PCAL019 = 0 vs.
 Ha: median of a_PCAL019 - b_PCAL019 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000
 Ho: median of a_PCAL019 - b_PCAL019 = 0 vs.
 Ha: median of a_PCAL019 - b_PCAL019 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:
 Ho: median of a_PCAL019 - b_PCAL019 = 0 vs.
 Ha: median of a_PCAL019 - b_PCAL019 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- PCAL020 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL020 - b_PCAL020 = 0 vs.
 Ha: median of a_PCAL020 - b_PCAL020 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000
 Ho: median of a_PCAL020 - b_PCAL020 = 0 vs.
 Ha: median of a_PCAL020 - b_PCAL020 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL020 - b_PCAL020 = 0 vs.
 Ha: median of a_PCAL020 - b_PCAL020 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL021 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL021 - b_PCAL021 = 0 vs.
 Ha: median of a_PCAL021 - b_PCAL021 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL021 - b_PCAL021 = 0 vs.
 Ha: median of a_PCAL021 - b_PCAL021 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL021 - b_PCAL021 = 0 vs.
 Ha: median of a_PCAL021 - b_PCAL021 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL022 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL022 - b_PCAL022 = 0 vs.
 Ha: median of a_PCAL022 - b_PCAL022 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL022 - b_PCAL022 = 0 vs.
 Ha: median of a_PCAL022 - b_PCAL022 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL022 - b_PCAL022 = 0 vs.
 Ha: median of a_PCAL022 - b_PCAL022 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL023 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PCAL023 - b_PCAL023 = 0 vs.
Ha: median of a_PCAL023 - b_PCAL023 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL023 - b_PCAL023 = 0 vs.
Ha: median of a_PCAL023 - b_PCAL023 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL023 - b_PCAL023 = 0 vs.
Ha: median of a_PCAL023 - b_PCAL023 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL024 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL024 - b_PCAL024 = 0 vs.
Ha: median of a_PCAL024 - b_PCAL024 > 0
Pr(#positive >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL024 - b_PCAL024 = 0 vs.
Ha: median of a_PCAL024 - b_PCAL024 < 0
Pr(#negative >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL024 - b_PCAL024 = 0 vs.
Ha: median of a_PCAL024 - b_PCAL024 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL025 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL025 - b_PCAL025 = 0 vs.
Ha: median of a_PCAL025 - b_PCAL025 > 0
Pr(#positive >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL025 - b_PCAL025 = 0 vs.
Ha: median of a_PCAL025 - b_PCAL025 < 0
Pr(#negative >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PCAL025 - b_PCAL025 = 0 vs.
 Ha: median of a_PCAL025 - b_PCAL025 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL026 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL026 - b_PCAL026 = 0 vs.
 Ha: median of a_PCAL026 - b_PCAL026 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL026 - b_PCAL026 = 0 vs.
 Ha: median of a_PCAL026 - b_PCAL026 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL026 - b_PCAL026 = 0 vs.
 Ha: median of a_PCAL026 - b_PCAL026 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL027 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL027 - b_PCAL027 = 0 vs.
 Ha: median of a_PCAL027 - b_PCAL027 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL027 - b_PCAL027 = 0 vs.
 Ha: median of a_PCAL027 - b_PCAL027 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL027 - b_PCAL027 = 0 vs.
 Ha: median of a_PCAL027 - b_PCAL027 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL028 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		1	.5	
negative		0	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_PCAL028 - b_PCAL028 = 0 vs.

Ha: median of a_PCAL028 - b_PCAL028 > 0

Pr(#positive >= 1) =

Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL028 - b_PCAL028 = 0 vs.

Ha: median of a_PCAL028 - b_PCAL028 < 0

Pr(#negative >= 0) =

Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL028 - b_PCAL028 = 0 vs.

Ha: median of a_PCAL028 - b_PCAL028 != 0

Pr(#positive >= 1 or #negative >= 1) =

min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL029 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PCAL029 - b_PCAL029 = 0 vs.

Ha: median of a_PCAL029 - b_PCAL029 > 0

Pr(#positive >= 1) =

Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL029 - b_PCAL029 = 0 vs.

Ha: median of a_PCAL029 - b_PCAL029 < 0

Pr(#negative >= 0) =

Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL029 - b_PCAL029 = 0 vs.

Ha: median of a_PCAL029 - b_PCAL029 != 0

Pr(#positive >= 1 or #negative >= 1) =

min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL030 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PCAL030 - b_PCAL030 = 0 vs.

Ha: median of a_PCAL030 - b_PCAL030 > 0

Pr(#positive >= 0) =

Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PCAL030 - b_PCAL030 = 0 vs.
 Ha: median of a_PCAL030 - b_PCAL030 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL030 - b_PCAL030 = 0 vs.
 Ha: median of a_PCAL030 - b_PCAL030 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL031 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL031 - b_PCAL031 = 0 vs.
 Ha: median of a_PCAL031 - b_PCAL031 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL031 - b_PCAL031 = 0 vs.
 Ha: median of a_PCAL031 - b_PCAL031 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL031 - b_PCAL031 = 0 vs.
 Ha: median of a_PCAL031 - b_PCAL031 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL032 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL032 - b_PCAL032 = 0 vs.
 Ha: median of a_PCAL032 - b_PCAL032 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL032 - b_PCAL032 = 0 vs.
 Ha: median of a_PCAL032 - b_PCAL032 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL032 - b_PCAL032 = 0 vs.
 Ha: median of a_PCAL032 - b_PCAL032 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL033 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL033 - b_PCAL033 = 0 vs.
 Ha: median of a_PCAL033 - b_PCAL033 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL033 - b_PCAL033 = 0 vs.
 Ha: median of a_PCAL033 - b_PCAL033 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL033 - b_PCAL033 = 0 vs.
 Ha: median of a_PCAL033 - b_PCAL033 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL034 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL034 - b_PCAL034 = 0 vs.
 Ha: median of a_PCAL034 - b_PCAL034 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL034 - b_PCAL034 = 0 vs.
 Ha: median of a_PCAL034 - b_PCAL034 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL034 - b_PCAL034 = 0 vs.
 Ha: median of a_PCAL034 - b_PCAL034 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL035 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL035 - b_PCAL035 = 0 vs.

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Ha: median of a_PCAL035 - b_PCAL035 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL035 - b_PCAL035 = 0 vs.
 Ha: median of a_PCAL035 - b_PCAL035 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL035 - b_PCAL035 = 0 vs.
 Ha: median of a_PCAL035 - b_PCAL035 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL036 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL036 - b_PCAL036 = 0 vs.
 Ha: median of a_PCAL036 - b_PCAL036 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PCAL036 - b_PCAL036 = 0 vs.
 Ha: median of a_PCAL036 - b_PCAL036 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL036 - b_PCAL036 = 0 vs.
 Ha: median of a_PCAL036 - b_PCAL036 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL037 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL037 - b_PCAL037 = 0 vs.
 Ha: median of a_PCAL037 - b_PCAL037 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PCAL037 - b_PCAL037 = 0 vs.
 Ha: median of a_PCAL037 - b_PCAL037 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL037 - b_PCAL037 = 0 vs.
 Ha: median of a_PCAL037 - b_PCAL037 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL038 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL038 - b_PCAL038 = 0 vs.
 Ha: median of a_PCAL038 - b_PCAL038 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL038 - b_PCAL038 = 0 vs.
 Ha: median of a_PCAL038 - b_PCAL038 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL038 - b_PCAL038 = 0 vs.
 Ha: median of a_PCAL038 - b_PCAL038 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL039 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL039 - b_PCAL039 = 0 vs.
 Ha: median of a_PCAL039 - b_PCAL039 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL039 - b_PCAL039 = 0 vs.
 Ha: median of a_PCAL039 - b_PCAL039 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL039 - b_PCAL039 = 0 vs.
 Ha: median of a_PCAL039 - b_PCAL039 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL040 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

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One-sided tests:

Ho: median of a_PCAL040 - b_PCAL040 = 0 vs.
 Ha: median of a_PCAL040 - b_PCAL040 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL040 - b_PCAL040 = 0 vs.
 Ha: median of a_PCAL040 - b_PCAL040 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL040 - b_PCAL040 = 0 vs.
 Ha: median of a_PCAL040 - b_PCAL040 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL041 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL041 - b_PCAL041 = 0 vs.
 Ha: median of a_PCAL041 - b_PCAL041 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL041 - b_PCAL041 = 0 vs.
 Ha: median of a_PCAL041 - b_PCAL041 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL041 - b_PCAL041 = 0 vs.
 Ha: median of a_PCAL041 - b_PCAL041 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL042 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL042 - b_PCAL042 = 0 vs.
 Ha: median of a_PCAL042 - b_PCAL042 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL042 - b_PCAL042 = 0 vs.
 Ha: median of a_PCAL042 - b_PCAL042 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

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Two-sided test:

Ho: median of a_PCAL042 - b_PCAL042 = 0 vs.
 Ha: median of a_PCAL042 - b_PCAL042 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL043 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL043 - b_PCAL043 = 0 vs.
 Ha: median of a_PCAL043 - b_PCAL043 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL043 - b_PCAL043 = 0 vs.
 Ha: median of a_PCAL043 - b_PCAL043 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL043 - b_PCAL043 = 0 vs.
 Ha: median of a_PCAL043 - b_PCAL043 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL044 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL044 - b_PCAL044 = 0 vs.
 Ha: median of a_PCAL044 - b_PCAL044 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL044 - b_PCAL044 = 0 vs.
 Ha: median of a_PCAL044 - b_PCAL044 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL044 - b_PCAL044 = 0 vs.
 Ha: median of a_PCAL044 - b_PCAL044 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL045 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PCAL045 - b_PCAL045 = 0 vs.
 Ha: median of a_PCAL045 - b_PCAL045 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL045 - b_PCAL045 = 0 vs.
 Ha: median of a_PCAL045 - b_PCAL045 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL045 - b_PCAL045 = 0 vs.
 Ha: median of a_PCAL045 - b_PCAL045 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL046 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PCAL046 - b_PCAL046 = 0 vs.
 Ha: median of a_PCAL046 - b_PCAL046 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL046 - b_PCAL046 = 0 vs.
 Ha: median of a_PCAL046 - b_PCAL046 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL046 - b_PCAL046 = 0 vs.
 Ha: median of a_PCAL046 - b_PCAL046 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL047 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PCAL047 - b_PCAL047 = 0 vs.
 Ha: median of a_PCAL047 - b_PCAL047 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PCAL047 - b_PCAL047 = 0 vs.
 Ha: median of a_PCAL047 - b_PCAL047 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PCAL047 - b_PCAL047 = 0 vs.
 Ha: median of a_PCAL047 - b_PCAL047 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL048 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PCAL048 - b_PCAL048 = 0 vs.
 Ha: median of a_PCAL048 - b_PCAL048 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL048 - b_PCAL048 = 0 vs.
 Ha: median of a_PCAL048 - b_PCAL048 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PCAL048 - b_PCAL048 = 0 vs.
 Ha: median of a_PCAL048 - b_PCAL048 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL049 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PCAL049 - b_PCAL049 = 0 vs.
 Ha: median of a_PCAL049 - b_PCAL049 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL049 - b_PCAL049 = 0 vs.
 Ha: median of a_PCAL049 - b_PCAL049 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PCAL049 - b_PCAL049 = 0 vs.
 Ha: median of a_PCAL049 - b_PCAL049 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL050 -----

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Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PCAL050 - b_PCAL050 = 0 vs.
 Ha: median of a_PCAL050 - b_PCAL050 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL050 - b_PCAL050 = 0 vs.
 Ha: median of a_PCAL050 - b_PCAL050 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_PCAL050 - b_PCAL050 = 0 vs.
 Ha: median of a_PCAL050 - b_PCAL050 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PCAL051 -----

Sign test

sign	observed	expected
positive	1	2
negative	3	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PCAL051 - b_PCAL051 = 0 vs.
 Ha: median of a_PCAL051 - b_PCAL051 > 0
 Pr(#positive >= 1) =
 Binomial(n = 4, x >= 1, p = 0.5) = 0.9375

Ho: median of a_PCAL051 - b_PCAL051 = 0 vs.
 Ha: median of a_PCAL051 - b_PCAL051 < 0
 Pr(#negative >= 3) =
 Binomial(n = 4, x >= 3, p = 0.5) = 0.3125

Two-sided test:

Ho: median of a_PCAL051 - b_PCAL051 = 0 vs.
 Ha: median of a_PCAL051 - b_PCAL051 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 4, x >= 3, p = 0.5)) = 0.6250
 ----- PCAL052 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_PCAL052 - b_PCAL052 = 0 vs.

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Ha: median of a_PCAL052 - b_PCAL052 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL052 - b_PCAL052 = 0 vs.
 Ha: median of a_PCAL052 - b_PCAL052 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PCAL052 - b_PCAL052 = 0 vs.
 Ha: median of a_PCAL052 - b_PCAL052 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PCAL053 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_PCAL053 - b_PCAL053 = 0 vs.
 Ha: median of a_PCAL053 - b_PCAL053 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PCAL053 - b_PCAL053 = 0 vs.
 Ha: median of a_PCAL053 - b_PCAL053 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_PCAL053 - b_PCAL053 = 0 vs.
 Ha: median of a_PCAL053 - b_PCAL053 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- PCAL054 -----

Sign test

sign	observed	expected
positive	4	2
negative	0	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_PCAL054 - b_PCAL054 = 0 vs.
 Ha: median of a_PCAL054 - b_PCAL054 > 0
 Pr(#positive >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625
 Ho: median of a_PCAL054 - b_PCAL054 = 0 vs.
 Ha: median of a_PCAL054 - b_PCAL054 < 0
 Pr(#negative >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL054 - b_PCAL054 = 0 vs.
 Ha: median of a_PCAL054 - b_PCAL054 != 0

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Pr(#positive >= 4 or #negative >= 4) =
 $\min(1, 2 * \text{Binomial}(n = 4, x \geq 4, p = 0.5)) = 0.1250$
 ----- PCAL055 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL055 - b_PCAL055 = 0 vs.
 Ha: median of a_PCAL055 - b_PCAL055 > 0
 Pr(#positive >= 0) =
 $\text{Binomial}(n = 2, x \geq 0, p = 0.5) = 1.0000$

Ho: median of a_PCAL055 - b_PCAL055 = 0 vs.
 Ha: median of a_PCAL055 - b_PCAL055 < 0
 Pr(#negative >= 2) =
 $\text{Binomial}(n = 2, x \geq 2, p = 0.5) = 0.2500$

Two-sided test:

Ho: median of a_PCAL055 - b_PCAL055 = 0 vs.
 Ha: median of a_PCAL055 - b_PCAL055 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 $\min(1, 2 * \text{Binomial}(n = 2, x \geq 2, p = 0.5)) = 0.5000$
 ----- PCAL056 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL056 - b_PCAL056 = 0 vs.
 Ha: median of a_PCAL056 - b_PCAL056 > 0
 Pr(#positive >= 0) =
 $\text{Binomial}(n = 1, x \geq 0, p = 0.5) = 1.0000$

Ho: median of a_PCAL056 - b_PCAL056 = 0 vs.
 Ha: median of a_PCAL056 - b_PCAL056 < 0
 Pr(#negative >= 1) =
 $\text{Binomial}(n = 1, x \geq 1, p = 0.5) = 0.5000$

Two-sided test:

Ho: median of a_PCAL056 - b_PCAL056 = 0 vs.
 Ha: median of a_PCAL056 - b_PCAL056 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 $\min(1, 2 * \text{Binomial}(n = 1, x \geq 1, p = 0.5)) = 1.0000$
 ----- PCAL057 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PCAL057 - b_PCAL057 = 0 vs.
Ha: median of a_PCAL057 - b_PCAL057 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL057 - b_PCAL057 = 0 vs.
Ha: median of a_PCAL057 - b_PCAL057 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL057 - b_PCAL057 = 0 vs.
Ha: median of a_PCAL057 - b_PCAL057 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL058 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL058 - b_PCAL058 = 0 vs.
Ha: median of a_PCAL058 - b_PCAL058 > 0
Pr(#positive >= 0) =
Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL058 - b_PCAL058 = 0 vs.
Ha: median of a_PCAL058 - b_PCAL058 < 0
Pr(#negative >= 2) =
Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL058 - b_PCAL058 = 0 vs.
Ha: median of a_PCAL058 - b_PCAL058 != 0
Pr(#positive >= 2 or #negative >= 2) =
min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PCAL059 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL059 - b_PCAL059 = 0 vs.
Ha: median of a_PCAL059 - b_PCAL059 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL059 - b_PCAL059 = 0 vs.
Ha: median of a_PCAL059 - b_PCAL059 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PCAL059 - b_PCAL059 = 0 vs.
 Ha: median of a_PCAL059 - b_PCAL059 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL060 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL060 - b_PCAL060 = 0 vs.
 Ha: median of a_PCAL060 - b_PCAL060 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL060 - b_PCAL060 = 0 vs.
 Ha: median of a_PCAL060 - b_PCAL060 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL060 - b_PCAL060 = 0 vs.
 Ha: median of a_PCAL060 - b_PCAL060 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL061 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL061 - b_PCAL061 = 0 vs.
 Ha: median of a_PCAL061 - b_PCAL061 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL061 - b_PCAL061 = 0 vs.
 Ha: median of a_PCAL061 - b_PCAL061 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL061 - b_PCAL061 = 0 vs.
 Ha: median of a_PCAL061 - b_PCAL061 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL062 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_PCAL062 - b_PCAL062 = 0 vs.
 Ha: median of a_PCAL062 - b_PCAL062 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL062 - b_PCAL062 = 0 vs.
 Ha: median of a_PCAL062 - b_PCAL062 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL062 - b_PCAL062 = 0 vs.
 Ha: median of a_PCAL062 - b_PCAL062 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL063 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_PCAL063 - b_PCAL063 = 0 vs.
 Ha: median of a_PCAL063 - b_PCAL063 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL063 - b_PCAL063 = 0 vs.
 Ha: median of a_PCAL063 - b_PCAL063 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL063 - b_PCAL063 = 0 vs.
 Ha: median of a_PCAL063 - b_PCAL063 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL064 -----

Sign test

sign		observed	expected
positive		0	1
negative		2	1
zero		0	0

all		2	2

One-sided tests:

Ho: median of a_PCAL064 - b_PCAL064 = 0 vs.
 Ha: median of a_PCAL064 - b_PCAL064 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PCAL064 - b_PCAL064 = 0 vs.
 Ha: median of a_PCAL064 - b_PCAL064 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PCAL064 - b_PCAL064 = 0 vs.
 Ha: median of a_PCAL064 - b_PCAL064 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL065 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL065 - b_PCAL065 = 0 vs.
 Ha: median of a_PCAL065 - b_PCAL065 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL065 - b_PCAL065 = 0 vs.
 Ha: median of a_PCAL065 - b_PCAL065 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL065 - b_PCAL065 = 0 vs.
 Ha: median of a_PCAL065 - b_PCAL065 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL066 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL066 - b_PCAL066 = 0 vs.
 Ha: median of a_PCAL066 - b_PCAL066 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL066 - b_PCAL066 = 0 vs.
 Ha: median of a_PCAL066 - b_PCAL066 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL066 - b_PCAL066 = 0 vs.
 Ha: median of a_PCAL066 - b_PCAL066 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL067 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	1	1
all	2	2

One-sided tests:

Ho: median of a_PCAL067 - b_PCAL067 = 0 vs.
 Ha: median of a_PCAL067 - b_PCAL067 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL067 - b_PCAL067 = 0 vs.
 Ha: median of a_PCAL067 - b_PCAL067 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL067 - b_PCAL067 = 0 vs.
 Ha: median of a_PCAL067 - b_PCAL067 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL068 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PCAL068 - b_PCAL068 = 0 vs.
 Ha: median of a_PCAL068 - b_PCAL068 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL068 - b_PCAL068 = 0 vs.
 Ha: median of a_PCAL068 - b_PCAL068 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL068 - b_PCAL068 = 0 vs.
 Ha: median of a_PCAL068 - b_PCAL068 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL069 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL069 - b_PCAL069 = 0 vs.

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Ha: median of a_PCAL069 - b_PCAL069 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL069 - b_PCAL069 = 0 vs.
 Ha: median of a_PCAL069 - b_PCAL069 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL069 - b_PCAL069 = 0 vs.
 Ha: median of a_PCAL069 - b_PCAL069 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL070 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	2	2
all	2	2

One-sided tests:
 Ho: median of a_PCAL070 - b_PCAL070 = 0 vs.
 Ha: median of a_PCAL070 - b_PCAL070 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PCAL070 - b_PCAL070 = 0 vs.
 Ha: median of a_PCAL070 - b_PCAL070 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL070 - b_PCAL070 = 0 vs.
 Ha: median of a_PCAL070 - b_PCAL070 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL071 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PCAL071 - b_PCAL071 = 0 vs.
 Ha: median of a_PCAL071 - b_PCAL071 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PCAL071 - b_PCAL071 = 0 vs.
 Ha: median of a_PCAL071 - b_PCAL071 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL071 - b_PCAL071 = 0 vs.
 Ha: median of a_PCAL071 - b_PCAL071 != 0

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Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PCAL072 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PCAL072 - b_PCAL072 = 0 vs.
 Ha: median of a_PCAL072 - b_PCAL072 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL072 - b_PCAL072 = 0 vs.
 Ha: median of a_PCAL072 - b_PCAL072 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL072 - b_PCAL072 = 0 vs.
 Ha: median of a_PCAL072 - b_PCAL072 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PCAL073 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL073 - b_PCAL073 = 0 vs.
 Ha: median of a_PCAL073 - b_PCAL073 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL073 - b_PCAL073 = 0 vs.
 Ha: median of a_PCAL073 - b_PCAL073 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL073 - b_PCAL073 = 0 vs.
 Ha: median of a_PCAL073 - b_PCAL073 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PCAL074 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_PCAL074 - b_PCAL074 = 0 vs.
 Ha: median of a_PCAL074 - b_PCAL074 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL074 - b_PCAL074 = 0 vs.
 Ha: median of a_PCAL074 - b_PCAL074 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL074 - b_PCAL074 = 0 vs.
 Ha: median of a_PCAL074 - b_PCAL074 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL075 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL075 - b_PCAL075 = 0 vs.
 Ha: median of a_PCAL075 - b_PCAL075 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL075 - b_PCAL075 = 0 vs.
 Ha: median of a_PCAL075 - b_PCAL075 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL075 - b_PCAL075 = 0 vs.
 Ha: median of a_PCAL075 - b_PCAL075 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL076 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL076 - b_PCAL076 = 0 vs.
 Ha: median of a_PCAL076 - b_PCAL076 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL076 - b_PCAL076 = 0 vs.
 Ha: median of a_PCAL076 - b_PCAL076 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PCAL076 - b_PCAL076 = 0 vs.
 Ha: median of a_PCAL076 - b_PCAL076 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL077 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL077 - b_PCAL077 = 0 vs.
 Ha: median of a_PCAL077 - b_PCAL077 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL077 - b_PCAL077 = 0 vs.
 Ha: median of a_PCAL077 - b_PCAL077 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL077 - b_PCAL077 = 0 vs.
 Ha: median of a_PCAL077 - b_PCAL077 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL078 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL078 - b_PCAL078 = 0 vs.
 Ha: median of a_PCAL078 - b_PCAL078 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL078 - b_PCAL078 = 0 vs.
 Ha: median of a_PCAL078 - b_PCAL078 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL078 - b_PCAL078 = 0 vs.
 Ha: median of a_PCAL078 - b_PCAL078 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL079 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	2	1
negative	0	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PCAL079 - b_PCAL079 = 0 vs.
 Ha: median of a_PCAL079 - b_PCAL079 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL079 - b_PCAL079 = 0 vs.
 Ha: median of a_PCAL079 - b_PCAL079 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL079 - b_PCAL079 = 0 vs.
 Ha: median of a_PCAL079 - b_PCAL079 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL080 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL080 - b_PCAL080 = 0 vs.
 Ha: median of a_PCAL080 - b_PCAL080 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL080 - b_PCAL080 = 0 vs.
 Ha: median of a_PCAL080 - b_PCAL080 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL080 - b_PCAL080 = 0 vs.
 Ha: median of a_PCAL080 - b_PCAL080 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL081 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL081 - b_PCAL081 = 0 vs.
 Ha: median of a_PCAL081 - b_PCAL081 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Ho: median of a_PCAL081 - b_PCAL081 = 0 vs.
 Ha: median of a_PCAL081 - b_PCAL081 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL081 - b_PCAL081 = 0 vs.
 Ha: median of a_PCAL081 - b_PCAL081 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL082 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PCAL082 - b_PCAL082 = 0 vs.
 Ha: median of a_PCAL082 - b_PCAL082 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL082 - b_PCAL082 = 0 vs.
 Ha: median of a_PCAL082 - b_PCAL082 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL082 - b_PCAL082 = 0 vs.
 Ha: median of a_PCAL082 - b_PCAL082 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL083 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL083 - b_PCAL083 = 0 vs.
 Ha: median of a_PCAL083 - b_PCAL083 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL083 - b_PCAL083 = 0 vs.
 Ha: median of a_PCAL083 - b_PCAL083 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL083 - b_PCAL083 = 0 vs.
 Ha: median of a_PCAL083 - b_PCAL083 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL084 -----

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Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL084 - b_PCAL084 = 0 vs.
 Ha: median of a_PCAL084 - b_PCAL084 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL084 - b_PCAL084 = 0 vs.
 Ha: median of a_PCAL084 - b_PCAL084 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL084 - b_PCAL084 = 0 vs.
 Ha: median of a_PCAL084 - b_PCAL084 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL085 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL085 - b_PCAL085 = 0 vs.
 Ha: median of a_PCAL085 - b_PCAL085 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL085 - b_PCAL085 = 0 vs.
 Ha: median of a_PCAL085 - b_PCAL085 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL085 - b_PCAL085 = 0 vs.
 Ha: median of a_PCAL085 - b_PCAL085 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL086 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL086 - b_PCAL086 = 0 vs.

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Ha: median of a_PCAL086 - b_PCAL086 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL086 - b_PCAL086 = 0 vs.
 Ha: median of a_PCAL086 - b_PCAL086 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL086 - b_PCAL086 = 0 vs.
 Ha: median of a_PCAL086 - b_PCAL086 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL087 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL087 - b_PCAL087 = 0 vs.
 Ha: median of a_PCAL087 - b_PCAL087 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL087 - b_PCAL087 = 0 vs.
 Ha: median of a_PCAL087 - b_PCAL087 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL087 - b_PCAL087 = 0 vs.
 Ha: median of a_PCAL087 - b_PCAL087 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL088 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PCAL088 - b_PCAL088 = 0 vs.
 Ha: median of a_PCAL088 - b_PCAL088 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL088 - b_PCAL088 = 0 vs.
 Ha: median of a_PCAL088 - b_PCAL088 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL088 - b_PCAL088 = 0 vs.
 Ha: median of a_PCAL088 - b_PCAL088 != 0

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Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL089 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL089 - b_PCAL089 = 0 vs.
 Ha: median of a_PCAL089 - b_PCAL089 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL089 - b_PCAL089 = 0 vs.
 Ha: median of a_PCAL089 - b_PCAL089 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL089 - b_PCAL089 = 0 vs.
 Ha: median of a_PCAL089 - b_PCAL089 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL090 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL090 - b_PCAL090 = 0 vs.
 Ha: median of a_PCAL090 - b_PCAL090 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL090 - b_PCAL090 = 0 vs.
 Ha: median of a_PCAL090 - b_PCAL090 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL090 - b_PCAL090 = 0 vs.
 Ha: median of a_PCAL090 - b_PCAL090 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL091 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0

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One-sided tests:

Ho: median of a_PCAL091 - b_PCAL091 = 0 vs.
 Ha: median of a_PCAL091 - b_PCAL091 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL091 - b_PCAL091 = 0 vs.
 Ha: median of a_PCAL091 - b_PCAL091 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL091 - b_PCAL091 = 0 vs.
 Ha: median of a_PCAL091 - b_PCAL091 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL092 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL092 - b_PCAL092 = 0 vs.
 Ha: median of a_PCAL092 - b_PCAL092 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL092 - b_PCAL092 = 0 vs.
 Ha: median of a_PCAL092 - b_PCAL092 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL092 - b_PCAL092 = 0 vs.
 Ha: median of a_PCAL092 - b_PCAL092 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL093 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL093 - b_PCAL093 = 0 vs.
 Ha: median of a_PCAL093 - b_PCAL093 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL093 - b_PCAL093 = 0 vs.
 Ha: median of a_PCAL093 - b_PCAL093 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_PCAL093 - b_PCAL093 = 0 vs.
 Ha: median of a_PCAL093 - b_PCAL093 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL094 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_PCAL094 - b_PCAL094 = 0 vs.
 Ha: median of a_PCAL094 - b_PCAL094 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_PCAL094 - b_PCAL094 = 0 vs.
 Ha: median of a_PCAL094 - b_PCAL094 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL094 - b_PCAL094 = 0 vs.
 Ha: median of a_PCAL094 - b_PCAL094 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL095 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL095 - b_PCAL095 = 0 vs.
 Ha: median of a_PCAL095 - b_PCAL095 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL095 - b_PCAL095 = 0 vs.
 Ha: median of a_PCAL095 - b_PCAL095 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL095 - b_PCAL095 = 0 vs.
 Ha: median of a_PCAL095 - b_PCAL095 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL096 -----

Sign test

sign	observed	expected
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positive	1	.5
negative	0	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL096 - b_PCAL096 = 0 vs.
 Ha: median of a_PCAL096 - b_PCAL096 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL096 - b_PCAL096 = 0 vs.
 Ha: median of a_PCAL096 - b_PCAL096 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL096 - b_PCAL096 = 0 vs.
 Ha: median of a_PCAL096 - b_PCAL096 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL097 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_PCAL097 - b_PCAL097 = 0 vs.
 Ha: median of a_PCAL097 - b_PCAL097 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL097 - b_PCAL097 = 0 vs.
 Ha: median of a_PCAL097 - b_PCAL097 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_PCAL097 - b_PCAL097 = 0 vs.
 Ha: median of a_PCAL097 - b_PCAL097 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- PCAL098 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL098 - b_PCAL098 = 0 vs.
 Ha: median of a_PCAL098 - b_PCAL098 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PCAL098 - b_PCAL098 = 0 vs.
 Ha: median of a_PCAL098 - b_PCAL098 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL098 - b_PCAL098 = 0 vs.
 Ha: median of a_PCAL098 - b_PCAL098 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL099 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL099 - b_PCAL099 = 0 vs.
 Ha: median of a_PCAL099 - b_PCAL099 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL099 - b_PCAL099 = 0 vs.
 Ha: median of a_PCAL099 - b_PCAL099 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL099 - b_PCAL099 = 0 vs.
 Ha: median of a_PCAL099 - b_PCAL099 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL100 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_PCAL100 - b_PCAL100 = 0 vs.
 Ha: median of a_PCAL100 - b_PCAL100 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL100 - b_PCAL100 = 0 vs.
 Ha: median of a_PCAL100 - b_PCAL100 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_PCAL100 - b_PCAL100 = 0 vs.
 Ha: median of a_PCAL100 - b_PCAL100 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- PCAL101 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL101 - b_PCAL101 = 0 vs.
 Ha: median of a_PCAL101 - b_PCAL101 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL101 - b_PCAL101 = 0 vs.
 Ha: median of a_PCAL101 - b_PCAL101 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL101 - b_PCAL101 = 0 vs.
 Ha: median of a_PCAL101 - b_PCAL101 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL102 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL102 - b_PCAL102 = 0 vs.
 Ha: median of a_PCAL102 - b_PCAL102 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL102 - b_PCAL102 = 0 vs.
 Ha: median of a_PCAL102 - b_PCAL102 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL102 - b_PCAL102 = 0 vs.
 Ha: median of a_PCAL102 - b_PCAL102 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL103 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	1	1
all	2	2

One-sided tests:

Ho: median of a_PCAL103 - b_PCAL103 = 0 vs.

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Ha: median of a_PCAL103 - b_PCAL103 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_PCAL103 - b_PCAL103 = 0 vs.
 Ha: median of a_PCAL103 - b_PCAL103 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL103 - b_PCAL103 = 0 vs.
 Ha: median of a_PCAL103 - b_PCAL103 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL104 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PCAL104 - b_PCAL104 = 0 vs.
 Ha: median of a_PCAL104 - b_PCAL104 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL104 - b_PCAL104 = 0 vs.
 Ha: median of a_PCAL104 - b_PCAL104 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL104 - b_PCAL104 = 0 vs.
 Ha: median of a_PCAL104 - b_PCAL104 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL105 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PCAL105 - b_PCAL105 = 0 vs.
 Ha: median of a_PCAL105 - b_PCAL105 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL105 - b_PCAL105 = 0 vs.
 Ha: median of a_PCAL105 - b_PCAL105 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL105 - b_PCAL105 = 0 vs.
 Ha: median of a_PCAL105 - b_PCAL105 != 0

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Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PCAL106 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	2	2
all	2	2

One-sided tests:

Ho: median of a_PCAL106 - b_PCAL106 = 0 vs.
 Ha: median of a_PCAL106 - b_PCAL106 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL106 - b_PCAL106 = 0 vs.
 Ha: median of a_PCAL106 - b_PCAL106 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL106 - b_PCAL106 = 0 vs.
 Ha: median of a_PCAL106 - b_PCAL106 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PCAL107 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PCAL107 - b_PCAL107 = 0 vs.
 Ha: median of a_PCAL107 - b_PCAL107 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL107 - b_PCAL107 = 0 vs.
 Ha: median of a_PCAL107 - b_PCAL107 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL107 - b_PCAL107 = 0 vs.
 Ha: median of a_PCAL107 - b_PCAL107 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PCAL108 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1

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One-sided tests:

Ho: median of a_PCAL108 - b_PCAL108 = 0 vs.
Ha: median of a_PCAL108 - b_PCAL108 > 0
Pr(#positive >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL108 - b_PCAL108 = 0 vs.
Ha: median of a_PCAL108 - b_PCAL108 < 0
Pr(#negative >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL108 - b_PCAL108 = 0 vs.
Ha: median of a_PCAL108 - b_PCAL108 != 0
Pr(#positive >= 0 or #negative >= 0) =
min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
----- PCAL109 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL109 - b_PCAL109 = 0 vs.
Ha: median of a_PCAL109 - b_PCAL109 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL109 - b_PCAL109 = 0 vs.
Ha: median of a_PCAL109 - b_PCAL109 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL109 - b_PCAL109 = 0 vs.
Ha: median of a_PCAL109 - b_PCAL109 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- PCAL110 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL110 - b_PCAL110 = 0 vs.
Ha: median of a_PCAL110 - b_PCAL110 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL110 - b_PCAL110 = 0 vs.
Ha: median of a_PCAL110 - b_PCAL110 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PCAL110 - b_PCAL110 = 0 vs.
 Ha: median of a_PCAL110 - b_PCAL110 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL111 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL111 - b_PCAL111 = 0 vs.
 Ha: median of a_PCAL111 - b_PCAL111 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL111 - b_PCAL111 = 0 vs.
 Ha: median of a_PCAL111 - b_PCAL111 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL111 - b_PCAL111 = 0 vs.
 Ha: median of a_PCAL111 - b_PCAL111 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL112 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL112 - b_PCAL112 = 0 vs.
 Ha: median of a_PCAL112 - b_PCAL112 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL112 - b_PCAL112 = 0 vs.
 Ha: median of a_PCAL112 - b_PCAL112 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL112 - b_PCAL112 = 0 vs.
 Ha: median of a_PCAL112 - b_PCAL112 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL113 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL113 - b_PCAL113 = 0 vs.
 Ha: median of a_PCAL113 - b_PCAL113 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL113 - b_PCAL113 = 0 vs.
 Ha: median of a_PCAL113 - b_PCAL113 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL113 - b_PCAL113 = 0 vs.
 Ha: median of a_PCAL113 - b_PCAL113 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL114 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL114 - b_PCAL114 = 0 vs.
 Ha: median of a_PCAL114 - b_PCAL114 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL114 - b_PCAL114 = 0 vs.
 Ha: median of a_PCAL114 - b_PCAL114 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL114 - b_PCAL114 = 0 vs.
 Ha: median of a_PCAL114 - b_PCAL114 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL115 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_PCAL115 - b_PCAL115 = 0 vs.
 Ha: median of a_PCAL115 - b_PCAL115 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_PCAL115 - b_PCAL115 = 0 vs.
 Ha: median of a_PCAL115 - b_PCAL115 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL115 - b_PCAL115 = 0 vs.
 Ha: median of a_PCAL115 - b_PCAL115 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL116 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL116 - b_PCAL116 = 0 vs.
 Ha: median of a_PCAL116 - b_PCAL116 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL116 - b_PCAL116 = 0 vs.
 Ha: median of a_PCAL116 - b_PCAL116 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL116 - b_PCAL116 = 0 vs.
 Ha: median of a_PCAL116 - b_PCAL116 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL117 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL117 - b_PCAL117 = 0 vs.
 Ha: median of a_PCAL117 - b_PCAL117 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL117 - b_PCAL117 = 0 vs.
 Ha: median of a_PCAL117 - b_PCAL117 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL117 - b_PCAL117 = 0 vs.
 Ha: median of a_PCAL117 - b_PCAL117 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL118 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL118 - b_PCAL118 = 0 vs.
 Ha: median of a_PCAL118 - b_PCAL118 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL118 - b_PCAL118 = 0 vs.
 Ha: median of a_PCAL118 - b_PCAL118 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL118 - b_PCAL118 = 0 vs.
 Ha: median of a_PCAL118 - b_PCAL118 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL119 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL119 - b_PCAL119 = 0 vs.
 Ha: median of a_PCAL119 - b_PCAL119 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL119 - b_PCAL119 = 0 vs.
 Ha: median of a_PCAL119 - b_PCAL119 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL119 - b_PCAL119 = 0 vs.
 Ha: median of a_PCAL119 - b_PCAL119 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL120 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL120 - b_PCAL120 = 0 vs.

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Ha: median of a_PCAL120 - b_PCAL120 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL120 - b_PCAL120 = 0 vs.
 Ha: median of a_PCAL120 - b_PCAL120 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL120 - b_PCAL120 = 0 vs.
 Ha: median of a_PCAL120 - b_PCAL120 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL121 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL121 - b_PCAL121 = 0 vs.
 Ha: median of a_PCAL121 - b_PCAL121 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PCAL121 - b_PCAL121 = 0 vs.
 Ha: median of a_PCAL121 - b_PCAL121 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL121 - b_PCAL121 = 0 vs.
 Ha: median of a_PCAL121 - b_PCAL121 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL122 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_PCAL122 - b_PCAL122 = 0 vs.
 Ha: median of a_PCAL122 - b_PCAL122 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_PCAL122 - b_PCAL122 = 0 vs.
 Ha: median of a_PCAL122 - b_PCAL122 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_PCAL122 - b_PCAL122 = 0 vs.
 Ha: median of a_PCAL122 - b_PCAL122 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL123 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL123 - b_PCAL123 = 0 vs.
 Ha: median of a_PCAL123 - b_PCAL123 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL123 - b_PCAL123 = 0 vs.
 Ha: median of a_PCAL123 - b_PCAL123 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL123 - b_PCAL123 = 0 vs.
 Ha: median of a_PCAL123 - b_PCAL123 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL124 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL124 - b_PCAL124 = 0 vs.
 Ha: median of a_PCAL124 - b_PCAL124 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL124 - b_PCAL124 = 0 vs.
 Ha: median of a_PCAL124 - b_PCAL124 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL124 - b_PCAL124 = 0 vs.
 Ha: median of a_PCAL124 - b_PCAL124 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- PCAL125 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all | 2_Granular-level_Tax_Results
1 1

One-sided tests:

Ho: median of a_PCAL125 - b_PCAL125 = 0 vs.
 Ha: median of a_PCAL125 - b_PCAL125 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL125 - b_PCAL125 = 0 vs.
 Ha: median of a_PCAL125 - b_PCAL125 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL125 - b_PCAL125 = 0 vs.
 Ha: median of a_PCAL125 - b_PCAL125 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL126 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL126 - b_PCAL126 = 0 vs.
 Ha: median of a_PCAL126 - b_PCAL126 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL126 - b_PCAL126 = 0 vs.
 Ha: median of a_PCAL126 - b_PCAL126 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_PCAL126 - b_PCAL126 = 0 vs.
 Ha: median of a_PCAL126 - b_PCAL126 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL127 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_PCAL127 - b_PCAL127 = 0 vs.
 Ha: median of a_PCAL127 - b_PCAL127 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL127 - b_PCAL127 = 0 vs.
 Ha: median of a_PCAL127 - b_PCAL127 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_PCAL127 - b_PCAL127 = 0 vs.
 Ha: median of a_PCAL127 - b_PCAL127 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- PCAL128 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PCAL128 - b_PCAL128 = 0 vs.
 Ha: median of a_PCAL128 - b_PCAL128 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL128 - b_PCAL128 = 0 vs.
 Ha: median of a_PCAL128 - b_PCAL128 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL128 - b_PCAL128 = 0 vs.
 Ha: median of a_PCAL128 - b_PCAL128 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL129 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PCAL129 - b_PCAL129 = 0 vs.
 Ha: median of a_PCAL129 - b_PCAL129 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL129 - b_PCAL129 = 0 vs.
 Ha: median of a_PCAL129 - b_PCAL129 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL129 - b_PCAL129 = 0 vs.
 Ha: median of a_PCAL129 - b_PCAL129 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL130 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	0
negative	0	0
zero	1	1
-----+-----		
all	1	1

One-sided tests:

Ho: median of a_PCAL130 - b_PCAL130 = 0 vs.
 Ha: median of a_PCAL130 - b_PCAL130 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL130 - b_PCAL130 = 0 vs.
 Ha: median of a_PCAL130 - b_PCAL130 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL130 - b_PCAL130 = 0 vs.
 Ha: median of a_PCAL130 - b_PCAL130 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PCAL131 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
-----+-----		
all	1	1

One-sided tests:

Ho: median of a_PCAL131 - b_PCAL131 = 0 vs.
 Ha: median of a_PCAL131 - b_PCAL131 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL131 - b_PCAL131 = 0 vs.
 Ha: median of a_PCAL131 - b_PCAL131 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL131 - b_PCAL131 = 0 vs.
 Ha: median of a_PCAL131 - b_PCAL131 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

----- PCAL132 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
-----+-----		
all	1	1

One-sided tests:

Ho: median of a_PCAL132 - b_PCAL132 = 0 vs.
 Ha: median of a_PCAL132 - b_PCAL132 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

2_Granular-level_Tax_Results

Ho: median of a_PCAL132 - b_PCAL132 = 0 vs.
 Ha: median of a_PCAL132 - b_PCAL132 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL132 - b_PCAL132 = 0 vs.
 Ha: median of a_PCAL132 - b_PCAL132 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL133 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PCAL133 - b_PCAL133 = 0 vs.
 Ha: median of a_PCAL133 - b_PCAL133 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL133 - b_PCAL133 = 0 vs.
 Ha: median of a_PCAL133 - b_PCAL133 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL133 - b_PCAL133 = 0 vs.
 Ha: median of a_PCAL133 - b_PCAL133 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL134 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_PCAL134 - b_PCAL134 = 0 vs.
 Ha: median of a_PCAL134 - b_PCAL134 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL134 - b_PCAL134 = 0 vs.
 Ha: median of a_PCAL134 - b_PCAL134 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_PCAL134 - b_PCAL134 = 0 vs.
 Ha: median of a_PCAL134 - b_PCAL134 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL135 -----

2_Granular-level_Tax_Results

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PCAL135 - b_PCAL135 = 0 vs.
 Ha: median of a_PCAL135 - b_PCAL135 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL135 - b_PCAL135 = 0 vs.
 Ha: median of a_PCAL135 - b_PCAL135 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL135 - b_PCAL135 = 0 vs.
 Ha: median of a_PCAL135 - b_PCAL135 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- PCAL136 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_PCAL136 - b_PCAL136 = 0 vs.
 Ha: median of a_PCAL136 - b_PCAL136 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_PCAL136 - b_PCAL136 = 0 vs.
 Ha: median of a_PCAL136 - b_PCAL136 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_PCAL136 - b_PCAL136 = 0 vs.
 Ha: median of a_PCAL136 - b_PCAL136 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- INPROB001 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPROB~1 - b_INPROB001 = 0 vs.

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Ha: median of a_INPROB~1 - b_INPROB001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPROB~1 - b_INPROB001 = 0 vs.
 Ha: median of a_INPROB~1 - b_INPROB001 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPROB~1 - b_INPROB001 = 0 vs.
 Ha: median of a_INPROB~1 - b_INPROB001 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV001 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPRE~01 - b_INPREV001 = 0 vs.
 Ha: median of a_INPRE~01 - b_INPREV001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPRE~01 - b_INPREV001 = 0 vs.
 Ha: median of a_INPRE~01 - b_INPREV001 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPRE~01 - b_INPREV001 = 0 vs.
 Ha: median of a_INPRE~01 - b_INPREV001 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV002 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~002 - b_INPREV002 = 0 vs.
 Ha: median of a_INPR~002 - b_INPREV002 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~002 - b_INPREV002 = 0 vs.
 Ha: median of a_INPR~002 - b_INPREV002 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~002 - b_INPREV002 = 0 vs.
 Ha: median of a_INPR~002 - b_INPREV002 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV003 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~003 - b_INPREV003 = 0 vs.
 Ha: median of a_INPR~003 - b_INPREV003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~003 - b_INPREV003 = 0 vs.
 Ha: median of a_INPR~003 - b_INPREV003 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~003 - b_INPREV003 = 0 vs.
 Ha: median of a_INPR~003 - b_INPREV003 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV004 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~004 - b_INPREV004 = 0 vs.
 Ha: median of a_INPR~004 - b_INPREV004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~004 - b_INPREV004 = 0 vs.
 Ha: median of a_INPR~004 - b_INPREV004 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~004 - b_INPREV004 = 0 vs.
 Ha: median of a_INPR~004 - b_INPREV004 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV005 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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1 1

One-sided tests:

Ho: median of a_INPR~005 - b_INPREV005 = 0 vs.
 Ha: median of a_INPR~005 - b_INPREV005 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~005 - b_INPREV005 = 0 vs.
 Ha: median of a_INPR~005 - b_INPREV005 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~005 - b_INPREV005 = 0 vs.
 Ha: median of a_INPR~005 - b_INPREV005 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV006 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~006 - b_INPREV006 = 0 vs.
 Ha: median of a_INPR~006 - b_INPREV006 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~006 - b_INPREV006 = 0 vs.
 Ha: median of a_INPR~006 - b_INPREV006 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~006 - b_INPREV006 = 0 vs.
 Ha: median of a_INPR~006 - b_INPREV006 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV007 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~007 - b_INPREV007 = 0 vs.
 Ha: median of a_INPR~007 - b_INPREV007 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~007 - b_INPREV007 = 0 vs.
 Ha: median of a_INPR~007 - b_INPREV007 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_INPR~007 - b_INPREV007 = 0 vs.
 Ha: median of a_INPR~007 - b_INPREV007 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV008 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~008 - b_INPREV008 = 0 vs.
 Ha: median of a_INPR~008 - b_INPREV008 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~008 - b_INPREV008 = 0 vs.
 Ha: median of a_INPR~008 - b_INPREV008 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~008 - b_INPREV008 = 0 vs.
 Ha: median of a_INPR~008 - b_INPREV008 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV009 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~009 - b_INPREV009 = 0 vs.
 Ha: median of a_INPR~009 - b_INPREV009 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~009 - b_INPREV009 = 0 vs.
 Ha: median of a_INPR~009 - b_INPREV009 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~009 - b_INPREV009 = 0 vs.
 Ha: median of a_INPR~009 - b_INPREV009 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV010 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_INPR~010 - b_INPREV010 = 0 vs.
 Ha: median of a_INPR~010 - b_INPREV010 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~010 - b_INPREV010 = 0 vs.
 Ha: median of a_INPR~010 - b_INPREV010 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~010 - b_INPREV010 = 0 vs.
 Ha: median of a_INPR~010 - b_INPREV010 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV011 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_INPR~011 - b_INPREV011 = 0 vs.
 Ha: median of a_INPR~011 - b_INPREV011 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~011 - b_INPREV011 = 0 vs.
 Ha: median of a_INPR~011 - b_INPREV011 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~011 - b_INPREV011 = 0 vs.
 Ha: median of a_INPR~011 - b_INPREV011 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV012 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_INPR~012 - b_INPREV012 = 0 vs.
 Ha: median of a_INPR~012 - b_INPREV012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_INPR~012 - b_INPREV012 = 0 vs.
 Ha: median of a_INPR~012 - b_INPREV012 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~012 - b_INPREV012 = 0 vs.
 Ha: median of a_INPR~012 - b_INPREV012 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV013 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~013 - b_INPREV013 = 0 vs.
 Ha: median of a_INPR~013 - b_INPREV013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~013 - b_INPREV013 = 0 vs.
 Ha: median of a_INPR~013 - b_INPREV013 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~013 - b_INPREV013 = 0 vs.
 Ha: median of a_INPR~013 - b_INPREV013 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV014 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~014 - b_INPREV014 = 0 vs.
 Ha: median of a_INPR~014 - b_INPREV014 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~014 - b_INPREV014 = 0 vs.
 Ha: median of a_INPR~014 - b_INPREV014 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~014 - b_INPREV014 = 0 vs.
 Ha: median of a_INPR~014 - b_INPREV014 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV015 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~015 - b_INPREV015 = 0 vs.
 Ha: median of a_INPR~015 - b_INPREV015 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~015 - b_INPREV015 = 0 vs.
 Ha: median of a_INPR~015 - b_INPREV015 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~015 - b_INPREV015 = 0 vs.
 Ha: median of a_INPR~015 - b_INPREV015 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV016 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~016 - b_INPREV016 = 0 vs.
 Ha: median of a_INPR~016 - b_INPREV016 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~016 - b_INPREV016 = 0 vs.
 Ha: median of a_INPR~016 - b_INPREV016 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~016 - b_INPREV016 = 0 vs.
 Ha: median of a_INPR~016 - b_INPREV016 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV017 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~017 - b_INPREV017 = 0 vs.

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Ha: median of a_INPR~017 - b_INPREV017 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~017 - b_INPREV017 = 0 vs.
 Ha: median of a_INPR~017 - b_INPREV017 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INPR~017 - b_INPREV017 = 0 vs.
 Ha: median of a_INPR~017 - b_INPREV017 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV018 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INPR~018 - b_INPREV018 = 0 vs.
 Ha: median of a_INPR~018 - b_INPREV018 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_INPR~018 - b_INPREV018 = 0 vs.
 Ha: median of a_INPR~018 - b_INPREV018 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INPR~018 - b_INPREV018 = 0 vs.
 Ha: median of a_INPR~018 - b_INPREV018 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV019 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INPR~019 - b_INPREV019 = 0 vs.
 Ha: median of a_INPR~019 - b_INPREV019 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_INPR~019 - b_INPREV019 = 0 vs.
 Ha: median of a_INPR~019 - b_INPREV019 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INPR~019 - b_INPREV019 = 0 vs.
 Ha: median of a_INPR~019 - b_INPREV019 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV020 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~020 - b_INPREV020 = 0 vs.
 Ha: median of a_INPR~020 - b_INPREV020 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~020 - b_INPREV020 = 0 vs.
 Ha: median of a_INPR~020 - b_INPREV020 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~020 - b_INPREV020 = 0 vs.
 Ha: median of a_INPR~020 - b_INPREV020 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV021 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~021 - b_INPREV021 = 0 vs.
 Ha: median of a_INPR~021 - b_INPREV021 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~021 - b_INPREV021 = 0 vs.
 Ha: median of a_INPR~021 - b_INPREV021 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~021 - b_INPREV021 = 0 vs.
 Ha: median of a_INPR~021 - b_INPREV021 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV022 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all | 2_Granular-level_Tax_Results
1 | 1 | 1

One-sided tests:

Ho: median of a_INPR~022 - b_INPREV022 = 0 vs.
Ha: median of a_INPR~022 - b_INPREV022 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~022 - b_INPREV022 = 0 vs.
Ha: median of a_INPR~022 - b_INPREV022 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~022 - b_INPREV022 = 0 vs.
Ha: median of a_INPR~022 - b_INPREV022 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- INPREV023 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~023 - b_INPREV023 = 0 vs.
Ha: median of a_INPR~023 - b_INPREV023 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~023 - b_INPREV023 = 0 vs.
Ha: median of a_INPR~023 - b_INPREV023 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~023 - b_INPREV023 = 0 vs.
Ha: median of a_INPR~023 - b_INPREV023 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- INPREV024 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~024 - b_INPREV024 = 0 vs.
Ha: median of a_INPR~024 - b_INPREV024 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~024 - b_INPREV024 = 0 vs.
Ha: median of a_INPR~024 - b_INPREV024 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_INPR~024 - b_INPREV024 = 0 vs.
 Ha: median of a_INPR~024 - b_INPREV024 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV025 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~025 - b_INPREV025 = 0 vs.
 Ha: median of a_INPR~025 - b_INPREV025 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~025 - b_INPREV025 = 0 vs.
 Ha: median of a_INPR~025 - b_INPREV025 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~025 - b_INPREV025 = 0 vs.
 Ha: median of a_INPR~025 - b_INPREV025 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV026 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INPR~026 - b_INPREV026 = 0 vs.
 Ha: median of a_INPR~026 - b_INPREV026 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~026 - b_INPREV026 = 0 vs.
 Ha: median of a_INPR~026 - b_INPREV026 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~026 - b_INPREV026 = 0 vs.
 Ha: median of a_INPR~026 - b_INPREV026 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV027 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_INPR~027 - b_INPREV027 = 0 vs.
 Ha: median of a_INPR~027 - b_INPREV027 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~027 - b_INPREV027 = 0 vs.
 Ha: median of a_INPR~027 - b_INPREV027 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~027 - b_INPREV027 = 0 vs.
 Ha: median of a_INPR~027 - b_INPREV027 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV028 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_INPR~028 - b_INPREV028 = 0 vs.
 Ha: median of a_INPR~028 - b_INPREV028 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~028 - b_INPREV028 = 0 vs.
 Ha: median of a_INPR~028 - b_INPREV028 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INPR~028 - b_INPREV028 = 0 vs.
 Ha: median of a_INPR~028 - b_INPREV028 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INPREV029 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_INPR~029 - b_INPREV029 = 0 vs.
 Ha: median of a_INPR~029 - b_INPREV029 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_INPR~029 - b_INPREV029 = 0 vs.
 Ha: median of a_INPR~029 - b_INPREV029 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INPR~029 - b_INPREV029 = 0 vs.
 Ha: median of a_INPR~029 - b_INPREV029 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INPREV030 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INPR~030 - b_INPREV030 = 0 vs.
 Ha: median of a_INPR~030 - b_INPREV030 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INPR~030 - b_INPREV030 = 0 vs.
 Ha: median of a_INPR~030 - b_INPREV030 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INPR~030 - b_INPREV030 = 0 vs.
 Ha: median of a_INPR~030 - b_INPREV030 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN001 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN001 - b_IN001 = 0 vs.
 Ha: median of a_IN001 - b_IN001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN001 - b_IN001 = 0 vs.
 Ha: median of a_IN001 - b_IN001 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_IN001 - b_IN001 = 0 vs.
 Ha: median of a_IN001 - b_IN001 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN002 -----

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Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN002 - b_IN002 = 0 vs.
 Ha: median of a_IN002 - b_IN002 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN002 - b_IN002 = 0 vs.
 Ha: median of a_IN002 - b_IN002 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN002 - b_IN002 = 0 vs.
 Ha: median of a_IN002 - b_IN002 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN003 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN003 - b_IN003 = 0 vs.
 Ha: median of a_IN003 - b_IN003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN003 - b_IN003 = 0 vs.
 Ha: median of a_IN003 - b_IN003 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN003 - b_IN003 = 0 vs.
 Ha: median of a_IN003 - b_IN003 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN004 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN004 - b_IN004 = 0 vs.

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Ha: median of a_IN004 - b_IN004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN004 - b_IN004 = 0 vs.
 Ha: median of a_IN004 - b_IN004 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_IN004 - b_IN004 = 0 vs.
 Ha: median of a_IN004 - b_IN004 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN005 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN005 - b_IN005 = 0 vs.
 Ha: median of a_IN005 - b_IN005 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_IN005 - b_IN005 = 0 vs.
 Ha: median of a_IN005 - b_IN005 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_IN005 - b_IN005 = 0 vs.
 Ha: median of a_IN005 - b_IN005 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN006 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN006 - b_IN006 = 0 vs.
 Ha: median of a_IN006 - b_IN006 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_IN006 - b_IN006 = 0 vs.
 Ha: median of a_IN006 - b_IN006 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_IN006 - b_IN006 = 0 vs.
 Ha: median of a_IN006 - b_IN006 != 0

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Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN007 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN007 - b_IN007 = 0 vs.
 Ha: median of a_IN007 - b_IN007 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN007 - b_IN007 = 0 vs.
 Ha: median of a_IN007 - b_IN007 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_IN007 - b_IN007 = 0 vs.
 Ha: median of a_IN007 - b_IN007 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN008 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	1	1
all	3	3

One-sided tests:

Ho: median of a_IN008 - b_IN008 = 0 vs.
 Ha: median of a_IN008 - b_IN008 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_IN008 - b_IN008 = 0 vs.
 Ha: median of a_IN008 - b_IN008 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_IN008 - b_IN008 = 0 vs.
 Ha: median of a_IN008 - b_IN008 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- IN009 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0

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3 3

One-sided tests:

Ho: median of a_IN009 - b_IN009 = 0 vs.
Ha: median of a_IN009 - b_IN009 > 0
Pr(#positive >= 0) =
Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN009 - b_IN009 = 0 vs.
Ha: median of a_IN009 - b_IN009 < 0
Pr(#negative >= 3) =
Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN009 - b_IN009 = 0 vs.
Ha: median of a_IN009 - b_IN009 != 0
Pr(#positive >= 3 or #negative >= 3) =
min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
----- IN010 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN010 - b_IN010 = 0 vs.
Ha: median of a_IN010 - b_IN010 > 0
Pr(#positive >= 0) =
Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN010 - b_IN010 = 0 vs.
Ha: median of a_IN010 - b_IN010 < 0
Pr(#negative >= 3) =
Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN010 - b_IN010 = 0 vs.
Ha: median of a_IN010 - b_IN010 != 0
Pr(#positive >= 3 or #negative >= 3) =
min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
----- IN011 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN011 - b_IN011 = 0 vs.
Ha: median of a_IN011 - b_IN011 > 0
Pr(#positive >= 1) =
Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN011 - b_IN011 = 0 vs.
Ha: median of a_IN011 - b_IN011 < 0
Pr(#negative >= 2) =
Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_IN011 - b_IN011 = 0 vs.
 Ha: median of a_IN011 - b_IN011 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN012 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN012 - b_IN012 = 0 vs.
 Ha: median of a_IN012 - b_IN012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN012 - b_IN012 = 0 vs.
 Ha: median of a_IN012 - b_IN012 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN012 - b_IN012 = 0 vs.
 Ha: median of a_IN012 - b_IN012 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN013 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN013 - b_IN013 = 0 vs.
 Ha: median of a_IN013 - b_IN013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN013 - b_IN013 = 0 vs.
 Ha: median of a_IN013 - b_IN013 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN013 - b_IN013 = 0 vs.
 Ha: median of a_IN013 - b_IN013 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN014 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	1.5	
negative		3	1.5	
zero		0	0	

all		3	3	

One-sided tests:

Ho: median of a_IN014 - b_IN014 = 0 vs.
 Ha: median of a_IN014 - b_IN014 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN014 - b_IN014 = 0 vs.
 Ha: median of a_IN014 - b_IN014 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN014 - b_IN014 = 0 vs.
 Ha: median of a_IN014 - b_IN014 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500

----- IN015 -----

Sign test

sign		observed	expected
positive		1	1.5
negative		2	1.5
zero		0	0

all		3	3

One-sided tests:

Ho: median of a_IN015 - b_IN015 = 0 vs.
 Ha: median of a_IN015 - b_IN015 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN015 - b_IN015 = 0 vs.
 Ha: median of a_IN015 - b_IN015 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN015 - b_IN015 = 0 vs.
 Ha: median of a_IN015 - b_IN015 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000

----- IN016 -----

Sign test

sign		observed	expected
positive		1	1.5
negative		2	1.5
zero		0	0

all		3	3

One-sided tests:

Ho: median of a_IN016 - b_IN016 = 0 vs.
 Ha: median of a_IN016 - b_IN016 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

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Ho: median of a_IN016 - b_IN016 = 0 vs.
 Ha: median of a_IN016 - b_IN016 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_IN016 - b_IN016 = 0 vs.
 Ha: median of a_IN016 - b_IN016 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN017 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN017 - b_IN017 = 0 vs.
 Ha: median of a_IN017 - b_IN017 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN017 - b_IN017 = 0 vs.
 Ha: median of a_IN017 - b_IN017 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_IN017 - b_IN017 = 0 vs.
 Ha: median of a_IN017 - b_IN017 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN018 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN018 - b_IN018 = 0 vs.
 Ha: median of a_IN018 - b_IN018 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN018 - b_IN018 = 0 vs.
 Ha: median of a_IN018 - b_IN018 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_IN018 - b_IN018 = 0 vs.
 Ha: median of a_IN018 - b_IN018 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN019 -----

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Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN019 - b_IN019 = 0 vs.
 Ha: median of a_IN019 - b_IN019 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN019 - b_IN019 = 0 vs.
 Ha: median of a_IN019 - b_IN019 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN019 - b_IN019 = 0 vs.
 Ha: median of a_IN019 - b_IN019 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN020 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN020 - b_IN020 = 0 vs.
 Ha: median of a_IN020 - b_IN020 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN020 - b_IN020 = 0 vs.
 Ha: median of a_IN020 - b_IN020 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN020 - b_IN020 = 0 vs.
 Ha: median of a_IN020 - b_IN020 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN021 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN021 - b_IN021 = 0 vs.

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Ha: median of a_IN021 - b_IN021 > 0
 Pr(#positive >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_IN021 - b_IN021 = 0 vs.
 Ha: median of a_IN021 - b_IN021 < 0
 Pr(#negative >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_IN021 - b_IN021 = 0 vs.
 Ha: median of a_IN021 - b_IN021 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN022 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN022 - b_IN022 = 0 vs.
 Ha: median of a_IN022 - b_IN022 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

 Ho: median of a_IN022 - b_IN022 = 0 vs.
 Ha: median of a_IN022 - b_IN022 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:
 Ho: median of a_IN022 - b_IN022 = 0 vs.
 Ha: median of a_IN022 - b_IN022 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN023 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN023 - b_IN023 = 0 vs.
 Ha: median of a_IN023 - b_IN023 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

 Ho: median of a_IN023 - b_IN023 = 0 vs.
 Ha: median of a_IN023 - b_IN023 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_IN023 - b_IN023 = 0 vs.
 Ha: median of a_IN023 - b_IN023 != 0

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Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000

----- IN024 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN024 - b_IN024 = 0 vs.
 Ha: median of a_IN024 - b_IN024 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN024 - b_IN024 = 0 vs.
 Ha: median of a_IN024 - b_IN024 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN024 - b_IN024 = 0 vs.
 Ha: median of a_IN024 - b_IN024 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000

----- IN025 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN025 - b_IN025 = 0 vs.
 Ha: median of a_IN025 - b_IN025 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN025 - b_IN025 = 0 vs.
 Ha: median of a_IN025 - b_IN025 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN025 - b_IN025 = 0 vs.
 Ha: median of a_IN025 - b_IN025 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000

----- IN026 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0

all | 2_Granular-level_Tax_Results
3 3

One-sided tests:

Ho: median of a_IN026 - b_IN026 = 0 vs.
Ha: median of a_IN026 - b_IN026 > 0
Pr(#positive >= 1) =
Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN026 - b_IN026 = 0 vs.
Ha: median of a_IN026 - b_IN026 < 0
Pr(#negative >= 2) =
Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN026 - b_IN026 = 0 vs.
Ha: median of a_IN026 - b_IN026 != 0
Pr(#positive >= 2 or #negative >= 2) =
min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
----- IN027 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN027 - b_IN027 = 0 vs.
Ha: median of a_IN027 - b_IN027 > 0
Pr(#positive >= 3) =
Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_IN027 - b_IN027 = 0 vs.
Ha: median of a_IN027 - b_IN027 < 0
Pr(#negative >= 0) =
Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_IN027 - b_IN027 = 0 vs.
Ha: median of a_IN027 - b_IN027 != 0
Pr(#positive >= 3 or #negative >= 3) =
min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
----- IN028 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN028 - b_IN028 = 0 vs.
Ha: median of a_IN028 - b_IN028 > 0
Pr(#positive >= 2) =
Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN028 - b_IN028 = 0 vs.
Ha: median of a_IN028 - b_IN028 < 0
Pr(#negative >= 1) =
Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

2_Granular-level_Tax_Results

Two-sided test:

Ho: median of a_IN028 - b_IN028 = 0 vs.
 Ha: median of a_IN028 - b_IN028 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN029 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN029 - b_IN029 = 0 vs.
 Ha: median of a_IN029 - b_IN029 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN029 - b_IN029 = 0 vs.
 Ha: median of a_IN029 - b_IN029 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_IN029 - b_IN029 = 0 vs.
 Ha: median of a_IN029 - b_IN029 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN030 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN030 - b_IN030 = 0 vs.
 Ha: median of a_IN030 - b_IN030 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN030 - b_IN030 = 0 vs.
 Ha: median of a_IN030 - b_IN030 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_IN030 - b_IN030 = 0 vs.
 Ha: median of a_IN030 - b_IN030 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN031 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		2	1.5	
negative		1	1.5	
zero		0	0	

all		3	3	

One-sided tests:

Ho: median of a_IN031 - b_IN031 = 0 vs.
 Ha: median of a_IN031 - b_IN031 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN031 - b_IN031 = 0 vs.
 Ha: median of a_IN031 - b_IN031 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_IN031 - b_IN031 = 0 vs.
 Ha: median of a_IN031 - b_IN031 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000

----- IN032 -----

Sign test

sign		observed	expected
positive		2	1.5
negative		1	1.5
zero		0	0

all		3	3

One-sided tests:

Ho: median of a_IN032 - b_IN032 = 0 vs.
 Ha: median of a_IN032 - b_IN032 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN032 - b_IN032 = 0 vs.
 Ha: median of a_IN032 - b_IN032 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_IN032 - b_IN032 = 0 vs.
 Ha: median of a_IN032 - b_IN032 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000

----- IN033 -----

Sign test

sign		observed	expected
positive		0	1.5
negative		3	1.5
zero		0	0

all		3	3

One-sided tests:

Ho: median of a_IN033 - b_IN033 = 0 vs.
 Ha: median of a_IN033 - b_IN033 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

2_Granular-level_Tax_Results

Ho: median of a_IN033 - b_IN033 = 0 vs.
 Ha: median of a_IN033 - b_IN033 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_IN033 - b_IN033 = 0 vs.
 Ha: median of a_IN033 - b_IN033 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN034 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN034 - b_IN034 = 0 vs.
 Ha: median of a_IN034 - b_IN034 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN034 - b_IN034 = 0 vs.
 Ha: median of a_IN034 - b_IN034 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:
 Ho: median of a_IN034 - b_IN034 = 0 vs.
 Ha: median of a_IN034 - b_IN034 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN035 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN035 - b_IN035 = 0 vs.
 Ha: median of a_IN035 - b_IN035 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN035 - b_IN035 = 0 vs.
 Ha: median of a_IN035 - b_IN035 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_IN035 - b_IN035 = 0 vs.
 Ha: median of a_IN035 - b_IN035 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN036 -----

2_Granular-level_Tax_Results

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN036 - b_IN036 = 0 vs.
 Ha: median of a_IN036 - b_IN036 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Ho: median of a_IN036 - b_IN036 = 0 vs.
 Ha: median of a_IN036 - b_IN036 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN036 - b_IN036 = 0 vs.
 Ha: median of a_IN036 - b_IN036 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN037 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN037 - b_IN037 = 0 vs.
 Ha: median of a_IN037 - b_IN037 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN037 - b_IN037 = 0 vs.
 Ha: median of a_IN037 - b_IN037 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_IN037 - b_IN037 = 0 vs.
 Ha: median of a_IN037 - b_IN037 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN038 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN038 - b_IN038 = 0 vs.

2_Granular-level_Tax_Results

Ha: median of a_IN038 - b_IN038 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN038 - b_IN038 = 0 vs.
 Ha: median of a_IN038 - b_IN038 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:
 Ho: median of a_IN038 - b_IN038 = 0 vs.
 Ha: median of a_IN038 - b_IN038 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN039 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN039 - b_IN039 = 0 vs.
 Ha: median of a_IN039 - b_IN039 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000
 Ho: median of a_IN039 - b_IN039 = 0 vs.
 Ha: median of a_IN039 - b_IN039 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:
 Ho: median of a_IN039 - b_IN039 = 0 vs.
 Ha: median of a_IN039 - b_IN039 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN040 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_IN040 - b_IN040 = 0 vs.
 Ha: median of a_IN040 - b_IN040 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_IN040 - b_IN040 = 0 vs.
 Ha: median of a_IN040 - b_IN040 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:
 Ho: median of a_IN040 - b_IN040 = 0 vs.
 Ha: median of a_IN040 - b_IN040 != 0

2_Granular-level_Tax_Results

Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN041 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN041 - b_IN041 = 0 vs.
 Ha: median of a_IN041 - b_IN041 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN041 - b_IN041 = 0 vs.
 Ha: median of a_IN041 - b_IN041 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_IN041 - b_IN041 = 0 vs.
 Ha: median of a_IN041 - b_IN041 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- IN042 -----

Sign test

sign	observed	expected
positive	2	1.5
negative	1	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_IN042 - b_IN042 = 0 vs.
 Ha: median of a_IN042 - b_IN042 > 0
 Pr(#positive >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Ho: median of a_IN042 - b_IN042 = 0 vs.
 Ha: median of a_IN042 - b_IN042 < 0
 Pr(#negative >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

Two-sided test:

Ho: median of a_IN042 - b_IN042 = 0 vs.
 Ha: median of a_IN042 - b_IN042 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- IN043 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all | 2_Granular-level_Tax_Results
1 | 1 | 1

One-sided tests:

Ho: median of a_IN043 - b_IN043 = 0 vs.
Ha: median of a_IN043 - b_IN043 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN043 - b_IN043 = 0 vs.
Ha: median of a_IN043 - b_IN043 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN043 - b_IN043 = 0 vs.
Ha: median of a_IN043 - b_IN043 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- IN044 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_IN044 - b_IN044 = 0 vs.
Ha: median of a_IN044 - b_IN044 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN044 - b_IN044 = 0 vs.
Ha: median of a_IN044 - b_IN044 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN044 - b_IN044 = 0 vs.
Ha: median of a_IN044 - b_IN044 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- IN045 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_IN045 - b_IN045 = 0 vs.
Ha: median of a_IN045 - b_IN045 > 0
Pr(#positive >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_IN045 - b_IN045 = 0 vs.
Ha: median of a_IN045 - b_IN045 < 0
Pr(#negative >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

2_Granular-level_Tax_Results

Two-sided test:

Ho: median of a_IN045 - b_IN045 = 0 vs.
 Ha: median of a_IN045 - b_IN045 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN046 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_IN046 - b_IN046 = 0 vs.
 Ha: median of a_IN046 - b_IN046 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_IN046 - b_IN046 = 0 vs.
 Ha: median of a_IN046 - b_IN046 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_IN046 - b_IN046 = 0 vs.
 Ha: median of a_IN046 - b_IN046 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN047 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_IN047 - b_IN047 = 0 vs.
 Ha: median of a_IN047 - b_IN047 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_IN047 - b_IN047 = 0 vs.
 Ha: median of a_IN047 - b_IN047 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_IN047 - b_IN047 = 0 vs.
 Ha: median of a_IN047 - b_IN047 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN048 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		1	.5	
negative		0	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_IN048 - b_IN048 = 0 vs.
 Ha: median of a_IN048 - b_IN048 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_IN048 - b_IN048 = 0 vs.
 Ha: median of a_IN048 - b_IN048 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_IN048 - b_IN048 = 0 vs.
 Ha: median of a_IN048 - b_IN048 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- IN049 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_IN049 - b_IN049 = 0 vs.
 Ha: median of a_IN049 - b_IN049 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_IN049 - b_IN049 = 0 vs.
 Ha: median of a_IN049 - b_IN049 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_IN049 - b_IN049 = 0 vs.
 Ha: median of a_IN049 - b_IN049 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- IN050 -----

Sign test

sign		observed	expected
positive		1	.5
negative		0	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_IN050 - b_IN050 = 0 vs.
 Ha: median of a_IN050 - b_IN050 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

2_Granular-level_Tax_Results

Ho: median of a_IN050 - b_IN050 = 0 vs.
 Ha: median of a_IN050 - b_IN050 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_IN050 - b_IN050 = 0 vs.
 Ha: median of a_IN050 - b_IN050 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN051 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_IN051 - b_IN051 = 0 vs.
 Ha: median of a_IN051 - b_IN051 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN051 - b_IN051 = 0 vs.
 Ha: median of a_IN051 - b_IN051 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_IN051 - b_IN051 = 0 vs.
 Ha: median of a_IN051 - b_IN051 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN052 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_IN052 - b_IN052 = 0 vs.
 Ha: median of a_IN052 - b_IN052 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN052 - b_IN052 = 0 vs.
 Ha: median of a_IN052 - b_IN052 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_IN052 - b_IN052 = 0 vs.
 Ha: median of a_IN052 - b_IN052 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN053 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_IN053 - b_IN053 = 0 vs.
 Ha: median of a_IN053 - b_IN053 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN053 - b_IN053 = 0 vs.
 Ha: median of a_IN053 - b_IN053 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN053 - b_IN053 = 0 vs.
 Ha: median of a_IN053 - b_IN053 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN054 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_IN054 - b_IN054 = 0 vs.
 Ha: median of a_IN054 - b_IN054 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN054 - b_IN054 = 0 vs.
 Ha: median of a_IN054 - b_IN054 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_IN054 - b_IN054 = 0 vs.
 Ha: median of a_IN054 - b_IN054 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- IN055 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_IN055 - b_IN055 = 0 vs.

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Ha: median of a_IN055 - b_IN055 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_IN055 - b_IN055 = 0 vs.
 Ha: median of a_IN055 - b_IN055 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_IN055 - b_IN055 = 0 vs.
 Ha: median of a_IN055 - b_IN055 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL001 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INCAL001 - b_INCAL001 = 0 vs.
 Ha: median of a_INCAL001 - b_INCAL001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_INCAL001 - b_INCAL001 = 0 vs.
 Ha: median of a_INCAL001 - b_INCAL001 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INCAL001 - b_INCAL001 = 0 vs.
 Ha: median of a_INCAL001 - b_INCAL001 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL002 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INCAL002 - b_INCAL002 = 0 vs.
 Ha: median of a_INCAL002 - b_INCAL002 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000
 Ho: median of a_INCAL002 - b_INCAL002 = 0 vs.
 Ha: median of a_INCAL002 - b_INCAL002 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_INCAL002 - b_INCAL002 = 0 vs.
 Ha: median of a_INCAL002 - b_INCAL002 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 $\min(1, 2 * \text{Binomial}(n = 1, x \geq 1, p = 0.5)) = 1.0000$
 ----- INCAL003 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL003 - b_INCAL003 = 0 vs.
 Ha: median of a_INCAL003 - b_INCAL003 > 0
 Pr(#positive >= 0) =
 $\text{Binomial}(n = 1, x \geq 0, p = 0.5) = 1.0000$

Ho: median of a_INCAL003 - b_INCAL003 = 0 vs.
 Ha: median of a_INCAL003 - b_INCAL003 < 0
 Pr(#negative >= 1) =
 $\text{Binomial}(n = 1, x \geq 1, p = 0.5) = 0.5000$

Two-sided test:

Ho: median of a_INCAL003 - b_INCAL003 = 0 vs.
 Ha: median of a_INCAL003 - b_INCAL003 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 $\min(1, 2 * \text{Binomial}(n = 1, x \geq 1, p = 0.5)) = 1.0000$
 ----- INCAL004 -----

Sign test

sign	observed	expected
positive	0	2.5
negative	5	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a_INCAL004 - b_INCAL004 = 0 vs.
 Ha: median of a_INCAL004 - b_INCAL004 > 0
 Pr(#positive >= 0) =
 $\text{Binomial}(n = 5, x \geq 0, p = 0.5) = 1.0000$

Ho: median of a_INCAL004 - b_INCAL004 = 0 vs.
 Ha: median of a_INCAL004 - b_INCAL004 < 0
 Pr(#negative >= 5) =
 $\text{Binomial}(n = 5, x \geq 5, p = 0.5) = 0.0313$

Two-sided test:

Ho: median of a_INCAL004 - b_INCAL004 = 0 vs.
 Ha: median of a_INCAL004 - b_INCAL004 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 $\min(1, 2 * \text{Binomial}(n = 5, x \geq 5, p = 0.5)) = 0.0625$
 ----- INCAL005 -----

Sign test

sign	observed	expected
positive	3	2.5
negative	2	2.5
zero	0	0

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One-sided tests:

Ho: median of a_INCAL005 - b_INCAL005 = 0 vs.
 Ha: median of a_INCAL005 - b_INCAL005 > 0
 Pr(#positive >= 3) =
 Binomial(n = 5, x >= 3, p = 0.5) = 0.5000

Ho: median of a_INCAL005 - b_INCAL005 = 0 vs.
 Ha: median of a_INCAL005 - b_INCAL005 < 0
 Pr(#negative >= 2) =
 Binomial(n = 5, x >= 2, p = 0.5) = 0.8125

Two-sided test:

Ho: median of a_INCAL005 - b_INCAL005 = 0 vs.
 Ha: median of a_INCAL005 - b_INCAL005 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 5, x >= 3, p = 0.5)) = 1.0000

----- INCAL006 -----

Sign test

sign	observed	expected
positive	5	2.5
negative	0	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a_INCAL006 - b_INCAL006 = 0 vs.
 Ha: median of a_INCAL006 - b_INCAL006 > 0
 Pr(#positive >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Ho: median of a_INCAL006 - b_INCAL006 = 0 vs.
 Ha: median of a_INCAL006 - b_INCAL006 < 0
 Pr(#negative >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_INCAL006 - b_INCAL006 = 0 vs.
 Ha: median of a_INCAL006 - b_INCAL006 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625

----- INCAL007 -----

Sign test

sign	observed	expected
positive	5	2.5
negative	0	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a_INCAL007 - b_INCAL007 = 0 vs.
 Ha: median of a_INCAL007 - b_INCAL007 > 0
 Pr(#positive >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Ho: median of a_INCAL007 - b_INCAL007 = 0 vs.
 Ha: median of a_INCAL007 - b_INCAL007 < 0
 Pr(#negative >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_INCAL007 - b_INCAL007 = 0 vs.
 Ha: median of a_INCAL007 - b_INCAL007 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625
 ----- INCAL008 -----

Sign test

sign	observed	expected
positive	0	2.5
negative	5	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a_INCAL008 - b_INCAL008 = 0 vs.
 Ha: median of a_INCAL008 - b_INCAL008 > 0
 Pr(#positive >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL008 - b_INCAL008 = 0 vs.
 Ha: median of a_INCAL008 - b_INCAL008 < 0
 Pr(#negative >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Two-sided test:

Ho: median of a_INCAL008 - b_INCAL008 = 0 vs.
 Ha: median of a_INCAL008 - b_INCAL008 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625
 ----- INCAL009 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL009 - b_INCAL009 = 0 vs.
 Ha: median of a_INCAL009 - b_INCAL009 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL009 - b_INCAL009 = 0 vs.
 Ha: median of a_INCAL009 - b_INCAL009 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INCAL009 - b_INCAL009 = 0 vs.
 Ha: median of a_INCAL009 - b_INCAL009 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL010 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_INCAL010 - b_INCAL010 = 0 vs.
 Ha: median of a_INCAL010 - b_INCAL010 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL010 - b_INCAL010 = 0 vs.
 Ha: median of a_INCAL010 - b_INCAL010 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INCAL010 - b_INCAL010 = 0 vs.
 Ha: median of a_INCAL010 - b_INCAL010 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INCAL011 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_INCAL011 - b_INCAL011 = 0 vs.
 Ha: median of a_INCAL011 - b_INCAL011 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL011 - b_INCAL011 = 0 vs.
 Ha: median of a_INCAL011 - b_INCAL011 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INCAL011 - b_INCAL011 = 0 vs.
 Ha: median of a_INCAL011 - b_INCAL011 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- INCAL012 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_INCAL012 - b_INCAL012 = 0 vs.
 Ha: median of a_INCAL012 - b_INCAL012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_INCAL012 - b_INCAL012 = 0 vs.
 Ha: median of a_INCAL012 - b_INCAL012 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INCAL012 - b_INCAL012 = 0 vs.
 Ha: median of a_INCAL012 - b_INCAL012 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL013 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INCAL013 - b_INCAL013 = 0 vs.
 Ha: median of a_INCAL013 - b_INCAL013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL013 - b_INCAL013 = 0 vs.
 Ha: median of a_INCAL013 - b_INCAL013 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_INCAL013 - b_INCAL013 = 0 vs.
 Ha: median of a_INCAL013 - b_INCAL013 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL014 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INCAL014 - b_INCAL014 = 0 vs.
 Ha: median of a_INCAL014 - b_INCAL014 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_INCAL014 - b_INCAL014 = 0 vs.
 Ha: median of a_INCAL014 - b_INCAL014 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_INCAL014 - b_INCAL014 = 0 vs.
 Ha: median of a_INCAL014 - b_INCAL014 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL015 -----

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Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL015 - b_INCAL015 = 0 vs.
 Ha: median of a_INCAL015 - b_INCAL015 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_INCAL015 - b_INCAL015 = 0 vs.
 Ha: median of a_INCAL015 - b_INCAL015 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_INCAL015 - b_INCAL015 = 0 vs.
 Ha: median of a_INCAL015 - b_INCAL015 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL016 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL016 - b_INCAL016 = 0 vs.
 Ha: median of a_INCAL016 - b_INCAL016 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL016 - b_INCAL016 = 0 vs.
 Ha: median of a_INCAL016 - b_INCAL016 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INCAL016 - b_INCAL016 = 0 vs.
 Ha: median of a_INCAL016 - b_INCAL016 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL017 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL017 - b_INCAL017 = 0 vs.

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Ha: median of a_INCAL017 - b_INCAL017 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_INCAL017 - b_INCAL017 = 0 vs.
 Ha: median of a_INCAL017 - b_INCAL017 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_INCAL017 - b_INCAL017 = 0 vs.
 Ha: median of a_INCAL017 - b_INCAL017 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL018 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INCAL018 - b_INCAL018 = 0 vs.
 Ha: median of a_INCAL018 - b_INCAL018 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000
 Ho: median of a_INCAL018 - b_INCAL018 = 0 vs.
 Ha: median of a_INCAL018 - b_INCAL018 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_INCAL018 - b_INCAL018 = 0 vs.
 Ha: median of a_INCAL018 - b_INCAL018 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL019 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_INCAL019 - b_INCAL019 = 0 vs.
 Ha: median of a_INCAL019 - b_INCAL019 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000
 Ho: median of a_INCAL019 - b_INCAL019 = 0 vs.
 Ha: median of a_INCAL019 - b_INCAL019 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_INCAL019 - b_INCAL019 = 0 vs.
 Ha: median of a_INCAL019 - b_INCAL019 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL020 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL020 - b_INCAL020 = 0 vs.
 Ha: median of a_INCAL020 - b_INCAL020 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL020 - b_INCAL020 = 0 vs.
 Ha: median of a_INCAL020 - b_INCAL020 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_INCAL020 - b_INCAL020 = 0 vs.
 Ha: median of a_INCAL020 - b_INCAL020 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL021 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL021 - b_INCAL021 = 0 vs.
 Ha: median of a_INCAL021 - b_INCAL021 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_INCAL021 - b_INCAL021 = 0 vs.
 Ha: median of a_INCAL021 - b_INCAL021 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_INCAL021 - b_INCAL021 = 0 vs.
 Ha: median of a_INCAL021 - b_INCAL021 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL022 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0

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One-sided tests:

Ho: median of a_INCAL022 - b_INCAL022 = 0 vs.
 Ha: median of a_INCAL022 - b_INCAL022 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_INCAL022 - b_INCAL022 = 0 vs.
 Ha: median of a_INCAL022 - b_INCAL022 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_INCAL022 - b_INCAL022 = 0 vs.
 Ha: median of a_INCAL022 - b_INCAL022 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL023 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL023 - b_INCAL023 = 0 vs.
 Ha: median of a_INCAL023 - b_INCAL023 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_INCAL023 - b_INCAL023 = 0 vs.
 Ha: median of a_INCAL023 - b_INCAL023 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_INCAL023 - b_INCAL023 = 0 vs.
 Ha: median of a_INCAL023 - b_INCAL023 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL024 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_INCAL024 - b_INCAL024 = 0 vs.
 Ha: median of a_INCAL024 - b_INCAL024 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_INCAL024 - b_INCAL024 = 0 vs.
 Ha: median of a_INCAL024 - b_INCAL024 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_INCAL024 - b_INCAL024 = 0 vs.
 Ha: median of a_INCAL024 - b_INCAL024 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- INCAL025 -----

Sign test

sign	observed	expected
positive	0	6
negative	12	6
zero	0	0
all	12	12

One-sided tests:

Ho: median of a_INCAL025 - b_INCAL025 = 0 vs.
 Ha: median of a_INCAL025 - b_INCAL025 > 0
 Pr(#positive >= 0) =
 Binomial(n = 12, x >= 0, p = 0.5) = 1.0000

Ho: median of a_INCAL025 - b_INCAL025 = 0 vs.
 Ha: median of a_INCAL025 - b_INCAL025 < 0
 Pr(#negative >= 12) =
 Binomial(n = 12, x >= 12, p = 0.5) = 0.0002

Two-sided test:

Ho: median of a_INCAL025 - b_INCAL025 = 0 vs.
 Ha: median of a_INCAL025 - b_INCAL025 != 0
 Pr(#positive >= 12 or #negative >= 12) =
 min(1, 2*Binomial(n = 12, x >= 12, p = 0.5)) = 0.0005
 ----- BW001 -----

Sign test

sign	observed	expected
positive	0	1.5
negative	3	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_BW001 - b_BW001 = 0 vs.
 Ha: median of a_BW001 - b_BW001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW001 - b_BW001 = 0 vs.
 Ha: median of a_BW001 - b_BW001 < 0
 Pr(#negative >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Two-sided test:

Ho: median of a_BW001 - b_BW001 = 0 vs.
 Ha: median of a_BW001 - b_BW001 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- BW002 -----

Sign test

sign	observed	expected
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positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW002 - b_BW002 = 0 vs.
 Ha: median of a_BW002 - b_BW002 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW002 - b_BW002 = 0 vs.
 Ha: median of a_BW002 - b_BW002 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW002 - b_BW002 = 0 vs.
 Ha: median of a_BW002 - b_BW002 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW003 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW003 - b_BW003 = 0 vs.
 Ha: median of a_BW003 - b_BW003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW003 - b_BW003 = 0 vs.
 Ha: median of a_BW003 - b_BW003 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW003 - b_BW003 = 0 vs.
 Ha: median of a_BW003 - b_BW003 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW004 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW004 - b_BW004 = 0 vs.
 Ha: median of a_BW004 - b_BW004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_BW004 - b_BW004 = 0 vs.
 Ha: median of a_BW004 - b_BW004 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW004 - b_BW004 = 0 vs.
 Ha: median of a_BW004 - b_BW004 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW005 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_BW005 - b_BW005 = 0 vs.
 Ha: median of a_BW005 - b_BW005 > 0
 Pr(#positive >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Ho: median of a_BW005 - b_BW005 = 0 vs.
 Ha: median of a_BW005 - b_BW005 < 0
 Pr(#negative >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Two-sided test:
 Ho: median of a_BW005 - b_BW005 = 0 vs.
 Ha: median of a_BW005 - b_BW005 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 2, x >= 1, p = 0.5)) = 1.0000
 ----- BW006 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_BW006 - b_BW006 = 0 vs.
 Ha: median of a_BW006 - b_BW006 > 0
 Pr(#positive >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Ho: median of a_BW006 - b_BW006 = 0 vs.
 Ha: median of a_BW006 - b_BW006 < 0
 Pr(#negative >= 1) =
 Binomial(n = 2, x >= 1, p = 0.5) = 0.7500

Two-sided test:
 Ho: median of a_BW006 - b_BW006 = 0 vs.
 Ha: median of a_BW006 - b_BW006 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 2, x >= 1, p = 0.5)) = 1.0000
 ----- BW007 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW007 - b_BW007 = 0 vs.
 Ha: median of a_BW007 - b_BW007 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW007 - b_BW007 = 0 vs.
 Ha: median of a_BW007 - b_BW007 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW007 - b_BW007 = 0 vs.
 Ha: median of a_BW007 - b_BW007 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW008 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW008 - b_BW008 = 0 vs.
 Ha: median of a_BW008 - b_BW008 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW008 - b_BW008 = 0 vs.
 Ha: median of a_BW008 - b_BW008 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW008 - b_BW008 = 0 vs.
 Ha: median of a_BW008 - b_BW008 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW009 -----

Sign test

sign	observed	expected
positive	0	7.5
negative	15	7.5
zero	0	0
all	15	15

One-sided tests:

Ho: median of a_BW009 - b_BW009 = 0 vs.

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Ha: median of a_BW009 - b_BW009 > 0
 Pr(#positive >= 0) =
 Binomial(n = 15, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW009 - b_BW009 = 0 vs.
 Ha: median of a_BW009 - b_BW009 < 0
 Pr(#negative >= 15) =
 Binomial(n = 15, x >= 15, p = 0.5) = 0.0000

Two-sided test:
 Ho: median of a_BW009 - b_BW009 = 0 vs.
 Ha: median of a_BW009 - b_BW009 != 0
 Pr(#positive >= 15 or #negative >= 15) =
 min(1, 2*Binomial(n = 15, x >= 15, p = 0.5)) = 0.0001
 ----- BW010 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_BW010 - b_BW010 = 0 vs.
 Ha: median of a_BW010 - b_BW010 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

 Ho: median of a_BW010 - b_BW010 = 0 vs.
 Ha: median of a_BW010 - b_BW010 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW010 - b_BW010 = 0 vs.
 Ha: median of a_BW010 - b_BW010 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 3, x >= 2, p = 0.5)) = 1.0000
 ----- BW011 -----

Sign test

sign	observed	expected
positive	1	1.5
negative	2	1.5
zero	0	0
all	3	3

One-sided tests:
 Ho: median of a_BW011 - b_BW011 = 0 vs.
 Ha: median of a_BW011 - b_BW011 > 0
 Pr(#positive >= 1) =
 Binomial(n = 3, x >= 1, p = 0.5) = 0.8750

 Ho: median of a_BW011 - b_BW011 = 0 vs.
 Ha: median of a_BW011 - b_BW011 < 0
 Pr(#negative >= 2) =
 Binomial(n = 3, x >= 2, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW011 - b_BW011 = 0 vs.
 Ha: median of a_BW011 - b_BW011 != 0

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Pr(#positive >= 2 or #negative >= 2) =
 $\min(1, 2 * \text{Binomial}(n = 3, x \geq 2, p = 0.5)) = 1.0000$

----- BW012 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BW012 - b_BW012 = 0 vs.
 Ha: median of a_BW012 - b_BW012 > 0
 Pr(#positive >= 1) =
 $\text{Binomial}(n = 2, x \geq 1, p = 0.5) = 0.7500$

Ho: median of a_BW012 - b_BW012 = 0 vs.
 Ha: median of a_BW012 - b_BW012 < 0
 Pr(#negative >= 1) =
 $\text{Binomial}(n = 2, x \geq 1, p = 0.5) = 0.7500$

Two-sided test:

Ho: median of a_BW012 - b_BW012 = 0 vs.
 Ha: median of a_BW012 - b_BW012 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 $\min(1, 2 * \text{Binomial}(n = 2, x \geq 1, p = 0.5)) = 1.0000$

----- BW013 -----

Sign test

sign	observed	expected
positive	1	1
negative	1	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BW013 - b_BW013 = 0 vs.
 Ha: median of a_BW013 - b_BW013 > 0
 Pr(#positive >= 1) =
 $\text{Binomial}(n = 2, x \geq 1, p = 0.5) = 0.7500$

Ho: median of a_BW013 - b_BW013 = 0 vs.
 Ha: median of a_BW013 - b_BW013 < 0
 Pr(#negative >= 1) =
 $\text{Binomial}(n = 2, x \geq 1, p = 0.5) = 0.7500$

Two-sided test:

Ho: median of a_BW013 - b_BW013 = 0 vs.
 Ha: median of a_BW013 - b_BW013 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 $\min(1, 2 * \text{Binomial}(n = 2, x \geq 1, p = 0.5)) = 1.0000$

----- BW014 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all | 2_Granular-level_Tax_Results
1 | 1 | 1

One-sided tests:

Ho: median of a_BW014 - b_BW014 = 0 vs.
Ha: median of a_BW014 - b_BW014 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW014 - b_BW014 = 0 vs.
Ha: median of a_BW014 - b_BW014 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW014 - b_BW014 = 0 vs.
Ha: median of a_BW014 - b_BW014 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- BW015 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW015 - b_BW015 = 0 vs.
Ha: median of a_BW015 - b_BW015 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW015 - b_BW015 = 0 vs.
Ha: median of a_BW015 - b_BW015 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW015 - b_BW015 = 0 vs.
Ha: median of a_BW015 - b_BW015 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- BW016 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW016 - b_BW016 = 0 vs.
Ha: median of a_BW016 - b_BW016 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW016 - b_BW016 = 0 vs.
Ha: median of a_BW016 - b_BW016 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_BW016 - b_BW016 = 0 vs.
 Ha: median of a_BW016 - b_BW016 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW017 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW017 - b_BW017 = 0 vs.
 Ha: median of a_BW017 - b_BW017 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW017 - b_BW017 = 0 vs.
 Ha: median of a_BW017 - b_BW017 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW017 - b_BW017 = 0 vs.
 Ha: median of a_BW017 - b_BW017 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW018 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW018 - b_BW018 = 0 vs.
 Ha: median of a_BW018 - b_BW018 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW018 - b_BW018 = 0 vs.
 Ha: median of a_BW018 - b_BW018 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW018 - b_BW018 = 0 vs.
 Ha: median of a_BW018 - b_BW018 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW019 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		0	.5	
negative		1	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_BW019 - b_BW019 = 0 vs.
 Ha: median of a_BW019 - b_BW019 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW019 - b_BW019 = 0 vs.
 Ha: median of a_BW019 - b_BW019 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW019 - b_BW019 = 0 vs.
 Ha: median of a_BW019 - b_BW019 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW020 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_BW020 - b_BW020 = 0 vs.
 Ha: median of a_BW020 - b_BW020 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW020 - b_BW020 = 0 vs.
 Ha: median of a_BW020 - b_BW020 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW020 - b_BW020 = 0 vs.
 Ha: median of a_BW020 - b_BW020 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW021 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_BW021 - b_BW021 = 0 vs.
 Ha: median of a_BW021 - b_BW021 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_BW021 - b_BW021 = 0 vs.
 Ha: median of a_BW021 - b_BW021 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW021 - b_BW021 = 0 vs.
 Ha: median of a_BW021 - b_BW021 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW022 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW022 - b_BW022 = 0 vs.
 Ha: median of a_BW022 - b_BW022 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW022 - b_BW022 = 0 vs.
 Ha: median of a_BW022 - b_BW022 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW022 - b_BW022 = 0 vs.
 Ha: median of a_BW022 - b_BW022 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW023 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW023 - b_BW023 = 0 vs.
 Ha: median of a_BW023 - b_BW023 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW023 - b_BW023 = 0 vs.
 Ha: median of a_BW023 - b_BW023 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW023 - b_BW023 = 0 vs.
 Ha: median of a_BW023 - b_BW023 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW024 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW024 - b_BW024 = 0 vs.
 Ha: median of a_BW024 - b_BW024 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW024 - b_BW024 = 0 vs.
 Ha: median of a_BW024 - b_BW024 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW024 - b_BW024 = 0 vs.
 Ha: median of a_BW024 - b_BW024 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW025 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW025 - b_BW025 = 0 vs.
 Ha: median of a_BW025 - b_BW025 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW025 - b_BW025 = 0 vs.
 Ha: median of a_BW025 - b_BW025 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW025 - b_BW025 = 0 vs.
 Ha: median of a_BW025 - b_BW025 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW026 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW026 - b_BW026 = 0 vs.

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Ha: median of a_BW026 - b_BW026 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW026 - b_BW026 = 0 vs.
 Ha: median of a_BW026 - b_BW026 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW026 - b_BW026 = 0 vs.
 Ha: median of a_BW026 - b_BW026 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW027 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW027 - b_BW027 = 0 vs.
 Ha: median of a_BW027 - b_BW027 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_BW027 - b_BW027 = 0 vs.
 Ha: median of a_BW027 - b_BW027 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW027 - b_BW027 = 0 vs.
 Ha: median of a_BW027 - b_BW027 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW028 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW028 - b_BW028 = 0 vs.
 Ha: median of a_BW028 - b_BW028 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_BW028 - b_BW028 = 0 vs.
 Ha: median of a_BW028 - b_BW028 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW028 - b_BW028 = 0 vs.
 Ha: median of a_BW028 - b_BW028 != 0

2_Granular-level_Tax_Results

Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW029 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW029 - b_BW029 = 0 vs.
 Ha: median of a_BW029 - b_BW029 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW029 - b_BW029 = 0 vs.
 Ha: median of a_BW029 - b_BW029 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW029 - b_BW029 = 0 vs.
 Ha: median of a_BW029 - b_BW029 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW030 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW030 - b_BW030 = 0 vs.
 Ha: median of a_BW030 - b_BW030 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW030 - b_BW030 = 0 vs.
 Ha: median of a_BW030 - b_BW030 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW030 - b_BW030 = 0 vs.
 Ha: median of a_BW030 - b_BW030 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW031 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1

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1 1

One-sided tests:

Ho: median of a_BW031 - b_BW031 = 0 vs.
Ha: median of a_BW031 - b_BW031 > 0
Pr(#positive >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW031 - b_BW031 = 0 vs.
Ha: median of a_BW031 - b_BW031 < 0
Pr(#negative >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW031 - b_BW031 = 0 vs.
Ha: median of a_BW031 - b_BW031 != 0
Pr(#positive >= 0 or #negative >= 0) =
min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
----- BW032 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW032 - b_BW032 = 0 vs.
Ha: median of a_BW032 - b_BW032 > 0
Pr(#positive >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW032 - b_BW032 = 0 vs.
Ha: median of a_BW032 - b_BW032 < 0
Pr(#negative >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW032 - b_BW032 = 0 vs.
Ha: median of a_BW032 - b_BW032 != 0
Pr(#positive >= 0 or #negative >= 0) =
min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
----- BW033 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW033 - b_BW033 = 0 vs.
Ha: median of a_BW033 - b_BW033 > 0
Pr(#positive >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW033 - b_BW033 = 0 vs.
Ha: median of a_BW033 - b_BW033 < 0
Pr(#negative >= 0) =
Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_BW033 - b_BW033 = 0 vs.
 Ha: median of a_BW033 - b_BW033 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW034 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW034 - b_BW034 = 0 vs.
 Ha: median of a_BW034 - b_BW034 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW034 - b_BW034 = 0 vs.
 Ha: median of a_BW034 - b_BW034 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW034 - b_BW034 = 0 vs.
 Ha: median of a_BW034 - b_BW034 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW035 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW035 - b_BW035 = 0 vs.
 Ha: median of a_BW035 - b_BW035 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW035 - b_BW035 = 0 vs.
 Ha: median of a_BW035 - b_BW035 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW035 - b_BW035 = 0 vs.
 Ha: median of a_BW035 - b_BW035 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW036 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	0
negative	0	0
zero	1	1
-----+-----		
all	1	1

One-sided tests:

Ho: median of a_BW036 - b_BW036 = 0 vs.
 Ha: median of a_BW036 - b_BW036 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW036 - b_BW036 = 0 vs.
 Ha: median of a_BW036 - b_BW036 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW036 - b_BW036 = 0 vs.
 Ha: median of a_BW036 - b_BW036 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW037 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
-----+-----		
all	1	1

One-sided tests:

Ho: median of a_BW037 - b_BW037 = 0 vs.
 Ha: median of a_BW037 - b_BW037 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW037 - b_BW037 = 0 vs.
 Ha: median of a_BW037 - b_BW037 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW037 - b_BW037 = 0 vs.
 Ha: median of a_BW037 - b_BW037 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW038 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
-----+-----		
all	1	1

One-sided tests:

Ho: median of a_BW038 - b_BW038 = 0 vs.
 Ha: median of a_BW038 - b_BW038 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_BW038 - b_BW038 = 0 vs.
 Ha: median of a_BW038 - b_BW038 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BW038 - b_BW038 = 0 vs.
 Ha: median of a_BW038 - b_BW038 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW039 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_BW039 - b_BW039 = 0 vs.
 Ha: median of a_BW039 - b_BW039 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW039 - b_BW039 = 0 vs.
 Ha: median of a_BW039 - b_BW039 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BW039 - b_BW039 = 0 vs.
 Ha: median of a_BW039 - b_BW039 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW040 -----

Sign test

sign	observed	expected
positive	0	2.5
negative	5	2.5
zero	0	0
all	5	5

One-sided tests:
 Ho: median of a_BW040 - b_BW040 = 0 vs.
 Ha: median of a_BW040 - b_BW040 > 0
 Pr(#positive >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW040 - b_BW040 = 0 vs.
 Ha: median of a_BW040 - b_BW040 < 0
 Pr(#negative >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Two-sided test:
 Ho: median of a_BW040 - b_BW040 = 0 vs.
 Ha: median of a_BW040 - b_BW040 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625
 ----- BW041 -----

2_Granular-level_Tax_Results

Sign test

sign	observed	expected
positive	1	2
negative	3	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_BW041 - b_BW041 = 0 vs.
 Ha: median of a_BW041 - b_BW041 > 0
 Pr(#positive >= 1) =
 Binomial(n = 4, x >= 1, p = 0.5) = 0.9375

Ho: median of a_BW041 - b_BW041 = 0 vs.
 Ha: median of a_BW041 - b_BW041 < 0
 Pr(#negative >= 3) =
 Binomial(n = 4, x >= 3, p = 0.5) = 0.3125

Two-sided test:

Ho: median of a_BW041 - b_BW041 = 0 vs.
 Ha: median of a_BW041 - b_BW041 != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 4, x >= 3, p = 0.5)) = 0.6250
 ----- BW042 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_BW042 - b_BW042 = 0 vs.
 Ha: median of a_BW042 - b_BW042 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW042 - b_BW042 = 0 vs.
 Ha: median of a_BW042 - b_BW042 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:

Ho: median of a_BW042 - b_BW042 = 0 vs.
 Ha: median of a_BW042 - b_BW042 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- BW043 -----

Sign test

sign	observed	expected
positive	0	2
negative	4	2
zero	0	0
all	4	4

One-sided tests:

Ho: median of a_BW043 - b_BW043 = 0 vs.

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Ha: median of a_BW043 - b_BW043 > 0
 Pr(#positive >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW043 - b_BW043 = 0 vs.
 Ha: median of a_BW043 - b_BW043 < 0
 Pr(#negative >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Two-sided test:
 Ho: median of a_BW043 - b_BW043 = 0 vs.
 Ha: median of a_BW043 - b_BW043 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- BW044 -----

Sign test

sign	observed	expected
positive	4	2
negative	0	2
zero	0	0
all	4	4

One-sided tests:
 Ho: median of a_BW044 - b_BW044 = 0 vs.
 Ha: median of a_BW044 - b_BW044 > 0
 Pr(#positive >= 4) =
 Binomial(n = 4, x >= 4, p = 0.5) = 0.0625

Ho: median of a_BW044 - b_BW044 = 0 vs.
 Ha: median of a_BW044 - b_BW044 < 0
 Pr(#negative >= 0) =
 Binomial(n = 4, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BW044 - b_BW044 = 0 vs.
 Ha: median of a_BW044 - b_BW044 != 0
 Pr(#positive >= 4 or #negative >= 4) =
 min(1, 2*Binomial(n = 4, x >= 4, p = 0.5)) = 0.1250
 ----- BW045 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW045 - b_BW045 = 0 vs.
 Ha: median of a_BW045 - b_BW045 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW045 - b_BW045 = 0 vs.
 Ha: median of a_BW045 - b_BW045 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW045 - b_BW045 = 0 vs.
 Ha: median of a_BW045 - b_BW045 != 0

2_Granular-level_Tax_Results

Pr(#positive >= 1 or #negative >= 1) =
 $\min(1, 2 * \text{Binomial}(n = 1, x \geq 1, p = 0.5)) = 1.0000$
 ----- BW046 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW046 - b_BW046 = 0 vs.
 Ha: median of a_BW046 - b_BW046 > 0
 Pr(#positive >= 0) =
 $\text{Binomial}(n = 1, x \geq 0, p = 0.5) = 1.0000$

Ho: median of a_BW046 - b_BW046 = 0 vs.
 Ha: median of a_BW046 - b_BW046 < 0
 Pr(#negative >= 1) =
 $\text{Binomial}(n = 1, x \geq 1, p = 0.5) = 0.5000$

Two-sided test:

Ho: median of a_BW046 - b_BW046 = 0 vs.
 Ha: median of a_BW046 - b_BW046 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 $\min(1, 2 * \text{Binomial}(n = 1, x \geq 1, p = 0.5)) = 1.0000$
 ----- BW047 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BW047 - b_BW047 = 0 vs.
 Ha: median of a_BW047 - b_BW047 > 0
 Pr(#positive >= 0) =
 $\text{Binomial}(n = 2, x \geq 0, p = 0.5) = 1.0000$

Ho: median of a_BW047 - b_BW047 = 0 vs.
 Ha: median of a_BW047 - b_BW047 < 0
 Pr(#negative >= 2) =
 $\text{Binomial}(n = 2, x \geq 2, p = 0.5) = 0.2500$

Two-sided test:

Ho: median of a_BW047 - b_BW047 = 0 vs.
 Ha: median of a_BW047 - b_BW047 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 $\min(1, 2 * \text{Binomial}(n = 2, x \geq 2, p = 0.5)) = 0.5000$
 ----- BW048 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

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One-sided tests:

Ho: median of a_BW048 - b_BW048 = 0 vs.
Ha: median of a_BW048 - b_BW048 > 0
Pr(#positive >= 0) =
Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW048 - b_BW048 = 0 vs.
Ha: median of a_BW048 - b_BW048 < 0
Pr(#negative >= 2) =
Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_BW048 - b_BW048 = 0 vs.
Ha: median of a_BW048 - b_BW048 != 0
Pr(#positive >= 2 or #negative >= 2) =
min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
----- BW049 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW049 - b_BW049 = 0 vs.
Ha: median of a_BW049 - b_BW049 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW049 - b_BW049 = 0 vs.
Ha: median of a_BW049 - b_BW049 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW049 - b_BW049 = 0 vs.
Ha: median of a_BW049 - b_BW049 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- BW050 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW050 - b_BW050 = 0 vs.
Ha: median of a_BW050 - b_BW050 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW050 - b_BW050 = 0 vs.
Ha: median of a_BW050 - b_BW050 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_BW050 - b_BW050 = 0 vs.
 Ha: median of a_BW050 - b_BW050 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW051 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW051 - b_BW051 = 0 vs.
 Ha: median of a_BW051 - b_BW051 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW051 - b_BW051 = 0 vs.
 Ha: median of a_BW051 - b_BW051 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW051 - b_BW051 = 0 vs.
 Ha: median of a_BW051 - b_BW051 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW052 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW052 - b_BW052 = 0 vs.
 Ha: median of a_BW052 - b_BW052 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW052 - b_BW052 = 0 vs.
 Ha: median of a_BW052 - b_BW052 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW052 - b_BW052 = 0 vs.
 Ha: median of a_BW052 - b_BW052 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW053 -----

Sign test

sign	observed	expected
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2_Granular-level_Tax_Results		
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW053 - b_BW053 = 0 vs.
 Ha: median of a_BW053 - b_BW053 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW053 - b_BW053 = 0 vs.
 Ha: median of a_BW053 - b_BW053 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW053 - b_BW053 = 0 vs.
 Ha: median of a_BW053 - b_BW053 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW054 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW054 - b_BW054 = 0 vs.
 Ha: median of a_BW054 - b_BW054 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW054 - b_BW054 = 0 vs.
 Ha: median of a_BW054 - b_BW054 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW054 - b_BW054 = 0 vs.
 Ha: median of a_BW054 - b_BW054 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW055 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BW055 - b_BW055 = 0 vs.
 Ha: median of a_BW055 - b_BW055 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_BW055 - b_BW055 = 0 vs.
 Ha: median of a_BW055 - b_BW055 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BW055 - b_BW055 = 0 vs.
 Ha: median of a_BW055 - b_BW055 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW056 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW056 - b_BW056 = 0 vs.
 Ha: median of a_BW056 - b_BW056 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW056 - b_BW056 = 0 vs.
 Ha: median of a_BW056 - b_BW056 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW056 - b_BW056 = 0 vs.
 Ha: median of a_BW056 - b_BW056 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW057 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW057 - b_BW057 = 0 vs.
 Ha: median of a_BW057 - b_BW057 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW057 - b_BW057 = 0 vs.
 Ha: median of a_BW057 - b_BW057 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW057 - b_BW057 = 0 vs.
 Ha: median of a_BW057 - b_BW057 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW058 -----

2_Granular-level_Tax_Results

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW058 - b_BW058 = 0 vs.
 Ha: median of a_BW058 - b_BW058 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW058 - b_BW058 = 0 vs.
 Ha: median of a_BW058 - b_BW058 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW058 - b_BW058 = 0 vs.
 Ha: median of a_BW058 - b_BW058 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW059 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW059 - b_BW059 = 0 vs.
 Ha: median of a_BW059 - b_BW059 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW059 - b_BW059 = 0 vs.
 Ha: median of a_BW059 - b_BW059 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW059 - b_BW059 = 0 vs.
 Ha: median of a_BW059 - b_BW059 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW060 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW060 - b_BW060 = 0 vs.

2_Granular-level_Tax_Results

Ha: median of a_BW060 - b_BW060 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW060 - b_BW060 = 0 vs.
 Ha: median of a_BW060 - b_BW060 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW060 - b_BW060 = 0 vs.
 Ha: median of a_BW060 - b_BW060 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW061 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_BW061 - b_BW061 = 0 vs.
 Ha: median of a_BW061 - b_BW061 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_BW061 - b_BW061 = 0 vs.
 Ha: median of a_BW061 - b_BW061 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BW061 - b_BW061 = 0 vs.
 Ha: median of a_BW061 - b_BW061 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BW062 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW062 - b_BW062 = 0 vs.
 Ha: median of a_BW062 - b_BW062 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000
 Ho: median of a_BW062 - b_BW062 = 0 vs.
 Ha: median of a_BW062 - b_BW062 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BW062 - b_BW062 = 0 vs.
 Ha: median of a_BW062 - b_BW062 != 0

2_Granular-level_Tax_Results

Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW063 -----

Sign test

sign	observed	expected
positive	1	.5
negative	0	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW063 - b_BW063 = 0 vs.
 Ha: median of a_BW063 - b_BW063 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_BW063 - b_BW063 = 0 vs.
 Ha: median of a_BW063 - b_BW063 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BW063 - b_BW063 = 0 vs.
 Ha: median of a_BW063 - b_BW063 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW064 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW064 - b_BW064 = 0 vs.
 Ha: median of a_BW064 - b_BW064 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW064 - b_BW064 = 0 vs.
 Ha: median of a_BW064 - b_BW064 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW064 - b_BW064 = 0 vs.
 Ha: median of a_BW064 - b_BW064 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW065 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all | 2_Granular-level_Tax_Results
1 | 1 | 1

One-sided tests:

Ho: median of a_BW065 - b_BW065 = 0 vs.
Ha: median of a_BW065 - b_BW065 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW065 - b_BW065 = 0 vs.
Ha: median of a_BW065 - b_BW065 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW065 - b_BW065 = 0 vs.
Ha: median of a_BW065 - b_BW065 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- BW066 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW066 - b_BW066 = 0 vs.
Ha: median of a_BW066 - b_BW066 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW066 - b_BW066 = 0 vs.
Ha: median of a_BW066 - b_BW066 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW066 - b_BW066 = 0 vs.
Ha: median of a_BW066 - b_BW066 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- BW067 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW067 - b_BW067 = 0 vs.
Ha: median of a_BW067 - b_BW067 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW067 - b_BW067 = 0 vs.
Ha: median of a_BW067 - b_BW067 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

2_Granular-level_Tax_Results

Two-sided test:

Ho: median of a_BW067 - b_BW067 = 0 vs.
 Ha: median of a_BW067 - b_BW067 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW068 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW068 - b_BW068 = 0 vs.
 Ha: median of a_BW068 - b_BW068 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW068 - b_BW068 = 0 vs.
 Ha: median of a_BW068 - b_BW068 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW068 - b_BW068 = 0 vs.
 Ha: median of a_BW068 - b_BW068 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW069 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW069 - b_BW069 = 0 vs.
 Ha: median of a_BW069 - b_BW069 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW069 - b_BW069 = 0 vs.
 Ha: median of a_BW069 - b_BW069 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW069 - b_BW069 = 0 vs.
 Ha: median of a_BW069 - b_BW069 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW070 -----

Sign test

sign	observed	expected
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	2_Granular-level_Tax_Results	
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW070 - b_BW070 = 0 vs.
 Ha: median of a_BW070 - b_BW070 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW070 - b_BW070 = 0 vs.
 Ha: median of a_BW070 - b_BW070 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW070 - b_BW070 = 0 vs.
 Ha: median of a_BW070 - b_BW070 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW071 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW071 - b_BW071 = 0 vs.
 Ha: median of a_BW071 - b_BW071 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW071 - b_BW071 = 0 vs.
 Ha: median of a_BW071 - b_BW071 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW071 - b_BW071 = 0 vs.
 Ha: median of a_BW071 - b_BW071 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW072 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW072 - b_BW072 = 0 vs.
 Ha: median of a_BW072 - b_BW072 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

2_Granular-level_Tax_Results

Ho: median of a_BW072 - b_BW072 = 0 vs.
 Ha: median of a_BW072 - b_BW072 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW072 - b_BW072 = 0 vs.
 Ha: median of a_BW072 - b_BW072 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW073 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW073 - b_BW073 = 0 vs.
 Ha: median of a_BW073 - b_BW073 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW073 - b_BW073 = 0 vs.
 Ha: median of a_BW073 - b_BW073 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW073 - b_BW073 = 0 vs.
 Ha: median of a_BW073 - b_BW073 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW074 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW074 - b_BW074 = 0 vs.
 Ha: median of a_BW074 - b_BW074 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW074 - b_BW074 = 0 vs.
 Ha: median of a_BW074 - b_BW074 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW074 - b_BW074 = 0 vs.
 Ha: median of a_BW074 - b_BW074 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW075 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW075 - b_BW075 = 0 vs.
 Ha: median of a_BW075 - b_BW075 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW075 - b_BW075 = 0 vs.
 Ha: median of a_BW075 - b_BW075 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW075 - b_BW075 = 0 vs.
 Ha: median of a_BW075 - b_BW075 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW076 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW076 - b_BW076 = 0 vs.
 Ha: median of a_BW076 - b_BW076 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW076 - b_BW076 = 0 vs.
 Ha: median of a_BW076 - b_BW076 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW076 - b_BW076 = 0 vs.
 Ha: median of a_BW076 - b_BW076 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW077 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW077 - b_BW077 = 0 vs.

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Ha: median of a_BW077 - b_BW077 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW077 - b_BW077 = 0 vs.
 Ha: median of a_BW077 - b_BW077 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW077 - b_BW077 = 0 vs.
 Ha: median of a_BW077 - b_BW077 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW078 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW078 - b_BW078 = 0 vs.
 Ha: median of a_BW078 - b_BW078 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_BW078 - b_BW078 = 0 vs.
 Ha: median of a_BW078 - b_BW078 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW078 - b_BW078 = 0 vs.
 Ha: median of a_BW078 - b_BW078 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW079 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BW079 - b_BW079 = 0 vs.
 Ha: median of a_BW079 - b_BW079 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_BW079 - b_BW079 = 0 vs.
 Ha: median of a_BW079 - b_BW079 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW079 - b_BW079 = 0 vs.
 Ha: median of a_BW079 - b_BW079 != 0

2_Granular-level_Tax_Results

Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW080 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW080 - b_BW080 = 0 vs.
 Ha: median of a_BW080 - b_BW080 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW080 - b_BW080 = 0 vs.
 Ha: median of a_BW080 - b_BW080 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW080 - b_BW080 = 0 vs.
 Ha: median of a_BW080 - b_BW080 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW081 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW081 - b_BW081 = 0 vs.
 Ha: median of a_BW081 - b_BW081 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW081 - b_BW081 = 0 vs.
 Ha: median of a_BW081 - b_BW081 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW081 - b_BW081 = 0 vs.
 Ha: median of a_BW081 - b_BW081 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW082 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

2_Granular-level_Tax_Results

all | 1 1

One-sided tests:

Ho: median of a_BW082 - b_BW082 = 0 vs.
 Ha: median of a_BW082 - b_BW082 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW082 - b_BW082 = 0 vs.
 Ha: median of a_BW082 - b_BW082 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW082 - b_BW082 = 0 vs.
 Ha: median of a_BW082 - b_BW082 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW083 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW083 - b_BW083 = 0 vs.
 Ha: median of a_BW083 - b_BW083 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW083 - b_BW083 = 0 vs.
 Ha: median of a_BW083 - b_BW083 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW083 - b_BW083 = 0 vs.
 Ha: median of a_BW083 - b_BW083 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BW084 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW084 - b_BW084 = 0 vs.
 Ha: median of a_BW084 - b_BW084 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW084 - b_BW084 = 0 vs.
 Ha: median of a_BW084 - b_BW084 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

2_Granular-level_Tax_Results

Two-sided test:

Ho: median of a_BW084 - b_BW084 = 0 vs.
 Ha: median of a_BW084 - b_BW084 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW085 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW085 - b_BW085 = 0 vs.
 Ha: median of a_BW085 - b_BW085 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW085 - b_BW085 = 0 vs.
 Ha: median of a_BW085 - b_BW085 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW085 - b_BW085 = 0 vs.
 Ha: median of a_BW085 - b_BW085 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW086 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BW086 - b_BW086 = 0 vs.
 Ha: median of a_BW086 - b_BW086 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW086 - b_BW086 = 0 vs.
 Ha: median of a_BW086 - b_BW086 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW086 - b_BW086 = 0 vs.
 Ha: median of a_BW086 - b_BW086 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW087 -----

Sign test

sign	observed	expected
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2_Granular-level_Tax_Results		
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW087 - b_BW087 = 0 vs.
 Ha: median of a_BW087 - b_BW087 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW087 - b_BW087 = 0 vs.
 Ha: median of a_BW087 - b_BW087 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW087 - b_BW087 = 0 vs.
 Ha: median of a_BW087 - b_BW087 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW088 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW088 - b_BW088 = 0 vs.
 Ha: median of a_BW088 - b_BW088 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BW088 - b_BW088 = 0 vs.
 Ha: median of a_BW088 - b_BW088 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BW088 - b_BW088 = 0 vs.
 Ha: median of a_BW088 - b_BW088 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BW089 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BW089 - b_BW089 = 0 vs.
 Ha: median of a_BW089 - b_BW089 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_BW089 - b_BW089 = 0 vs.
 Ha: median of a_BW089 - b_BW089 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BW089 - b_BW089 = 0 vs.
 Ha: median of a_BW089 - b_BW089 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI001 -----

Sign test

sign	observed	expected
positive	5	2.5
negative	0	2.5
zero	0	0
all	5	5

One-sided tests:
 Ho: median of a_BMI001 - b_BMI001 = 0 vs.
 Ha: median of a_BMI001 - b_BMI001 > 0
 Pr(#positive >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Ho: median of a_BMI001 - b_BMI001 = 0 vs.
 Ha: median of a_BMI001 - b_BMI001 < 0
 Pr(#negative >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI001 - b_BMI001 = 0 vs.
 Ha: median of a_BMI001 - b_BMI001 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625
 ----- BMI002 -----

Sign test

sign	observed	expected
positive	10	5
negative	0	5
zero	0	0
all	10	10

One-sided tests:
 Ho: median of a_BMI002 - b_BMI002 = 0 vs.
 Ha: median of a_BMI002 - b_BMI002 > 0
 Pr(#positive >= 10) =
 Binomial(n = 10, x >= 10, p = 0.5) = 0.0010

Ho: median of a_BMI002 - b_BMI002 = 0 vs.
 Ha: median of a_BMI002 - b_BMI002 < 0
 Pr(#negative >= 0) =
 Binomial(n = 10, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI002 - b_BMI002 = 0 vs.
 Ha: median of a_BMI002 - b_BMI002 != 0
 Pr(#positive >= 10 or #negative >= 10) =
 min(1, 2*Binomial(n = 10, x >= 10, p = 0.5)) = 0.0020
 ----- BMI003 -----

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Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BMI003 - b_BMI003 = 0 vs.
 Ha: median of a_BMI003 - b_BMI003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI003 - b_BMI003 = 0 vs.
 Ha: median of a_BMI003 - b_BMI003 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_BMI003 - b_BMI003 = 0 vs.
 Ha: median of a_BMI003 - b_BMI003 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- BMI004 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BMI004 - b_BMI004 = 0 vs.
 Ha: median of a_BMI004 - b_BMI004 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_BMI004 - b_BMI004 = 0 vs.
 Ha: median of a_BMI004 - b_BMI004 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI004 - b_BMI004 = 0 vs.
 Ha: median of a_BMI004 - b_BMI004 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- BMI005 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BMI005 - b_BMI005 = 0 vs.

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Ha: median of a_BMI005 - b_BMI005 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_BMI005 - b_BMI005 = 0 vs.
 Ha: median of a_BMI005 - b_BMI005 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI005 - b_BMI005 = 0 vs.
 Ha: median of a_BMI005 - b_BMI005 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- BMI006 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_BMI006 - b_BMI006 = 0 vs.
 Ha: median of a_BMI006 - b_BMI006 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500
 Ho: median of a_BMI006 - b_BMI006 = 0 vs.
 Ha: median of a_BMI006 - b_BMI006 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI006 - b_BMI006 = 0 vs.
 Ha: median of a_BMI006 - b_BMI006 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- BMI007 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_BMI007 - b_BMI007 = 0 vs.
 Ha: median of a_BMI007 - b_BMI007 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500
 Ho: median of a_BMI007 - b_BMI007 = 0 vs.
 Ha: median of a_BMI007 - b_BMI007 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI007 - b_BMI007 = 0 vs.
 Ha: median of a_BMI007 - b_BMI007 != 0

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Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- BMI008 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BMI008 - b_BMI008 = 0 vs.
 Ha: median of a_BMI008 - b_BMI008 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_BMI008 - b_BMI008 = 0 vs.
 Ha: median of a_BMI008 - b_BMI008 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI008 - b_BMI008 = 0 vs.
 Ha: median of a_BMI008 - b_BMI008 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- BMI009 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BMI009 - b_BMI009 = 0 vs.
 Ha: median of a_BMI009 - b_BMI009 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_BMI009 - b_BMI009 = 0 vs.
 Ha: median of a_BMI009 - b_BMI009 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI009 - b_BMI009 = 0 vs.
 Ha: median of a_BMI009 - b_BMI009 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- BMI010 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0

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One-sided tests:

Ho: median of a_BMI010 - b_BMI010 = 0 vs.
 Ha: median of a_BMI010 - b_BMI010 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_BMI010 - b_BMI010 = 0 vs.
 Ha: median of a_BMI010 - b_BMI010 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI010 - b_BMI010 = 0 vs.
 Ha: median of a_BMI010 - b_BMI010 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- BMI011 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BMI011 - b_BMI011 = 0 vs.
 Ha: median of a_BMI011 - b_BMI011 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_BMI011 - b_BMI011 = 0 vs.
 Ha: median of a_BMI011 - b_BMI011 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI011 - b_BMI011 = 0 vs.
 Ha: median of a_BMI011 - b_BMI011 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- BMI012 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI012 - b_BMI012 = 0 vs.
 Ha: median of a_BMI012 - b_BMI012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI012 - b_BMI012 = 0 vs.
 Ha: median of a_BMI012 - b_BMI012 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_BMI012 - b_BMI012 = 0 vs.
 Ha: median of a_BMI012 - b_BMI012 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI013 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI013 - b_BMI013 = 0 vs.
 Ha: median of a_BMI013 - b_BMI013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI013 - b_BMI013 = 0 vs.
 Ha: median of a_BMI013 - b_BMI013 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI013 - b_BMI013 = 0 vs.
 Ha: median of a_BMI013 - b_BMI013 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI014 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI014 - b_BMI014 = 0 vs.
 Ha: median of a_BMI014 - b_BMI014 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI014 - b_BMI014 = 0 vs.
 Ha: median of a_BMI014 - b_BMI014 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI014 - b_BMI014 = 0 vs.
 Ha: median of a_BMI014 - b_BMI014 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI015 -----

Sign test

sign	observed	expected
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2_Granular-level_Tax_Results		
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BMI015 - b_BMI015 = 0 vs.
 Ha: median of a_BMI015 - b_BMI015 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI015 - b_BMI015 = 0 vs.
 Ha: median of a_BMI015 - b_BMI015 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI015 - b_BMI015 = 0 vs.
 Ha: median of a_BMI015 - b_BMI015 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI016 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BMI016 - b_BMI016 = 0 vs.
 Ha: median of a_BMI016 - b_BMI016 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI016 - b_BMI016 = 0 vs.
 Ha: median of a_BMI016 - b_BMI016 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI016 - b_BMI016 = 0 vs.
 Ha: median of a_BMI016 - b_BMI016 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI017 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_BMI017 - b_BMI017 = 0 vs.
 Ha: median of a_BMI017 - b_BMI017 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_BMI017 - b_BMI017 = 0 vs.
 Ha: median of a_BMI017 - b_BMI017 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BMI017 - b_BMI017 = 0 vs.
 Ha: median of a_BMI017 - b_BMI017 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI018 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BMI018 - b_BMI018 = 0 vs.
 Ha: median of a_BMI018 - b_BMI018 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI018 - b_BMI018 = 0 vs.
 Ha: median of a_BMI018 - b_BMI018 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BMI018 - b_BMI018 = 0 vs.
 Ha: median of a_BMI018 - b_BMI018 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI019 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BMI019 - b_BMI019 = 0 vs.
 Ha: median of a_BMI019 - b_BMI019 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI019 - b_BMI019 = 0 vs.
 Ha: median of a_BMI019 - b_BMI019 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BMI019 - b_BMI019 = 0 vs.
 Ha: median of a_BMI019 - b_BMI019 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI020 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI020 - b_BMI020 = 0 vs.
 Ha: median of a_BMI020 - b_BMI020 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI020 - b_BMI020 = 0 vs.
 Ha: median of a_BMI020 - b_BMI020 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI020 - b_BMI020 = 0 vs.
 Ha: median of a_BMI020 - b_BMI020 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI021 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI021 - b_BMI021 = 0 vs.
 Ha: median of a_BMI021 - b_BMI021 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI021 - b_BMI021 = 0 vs.
 Ha: median of a_BMI021 - b_BMI021 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI021 - b_BMI021 = 0 vs.
 Ha: median of a_BMI021 - b_BMI021 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI022 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI022 - b_BMI022 = 0 vs.

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Ha: median of a_BMI022 - b_BMI022 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI022 - b_BMI022 = 0 vs.
 Ha: median of a_BMI022 - b_BMI022 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BMI022 - b_BMI022 = 0 vs.
 Ha: median of a_BMI022 - b_BMI022 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI023 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BMI023 - b_BMI023 = 0 vs.
 Ha: median of a_BMI023 - b_BMI023 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_BMI023 - b_BMI023 = 0 vs.
 Ha: median of a_BMI023 - b_BMI023 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BMI023 - b_BMI023 = 0 vs.
 Ha: median of a_BMI023 - b_BMI023 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI024 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_BMI024 - b_BMI024 = 0 vs.
 Ha: median of a_BMI024 - b_BMI024 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_BMI024 - b_BMI024 = 0 vs.
 Ha: median of a_BMI024 - b_BMI024 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_BMI024 - b_BMI024 = 0 vs.
 Ha: median of a_BMI024 - b_BMI024 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BMI025 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI025 - b_BMI025 = 0 vs.
 Ha: median of a_BMI025 - b_BMI025 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI025 - b_BMI025 = 0 vs.
 Ha: median of a_BMI025 - b_BMI025 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI025 - b_BMI025 = 0 vs.
 Ha: median of a_BMI025 - b_BMI025 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BMI026 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI026 - b_BMI026 = 0 vs.
 Ha: median of a_BMI026 - b_BMI026 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI026 - b_BMI026 = 0 vs.
 Ha: median of a_BMI026 - b_BMI026 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI026 - b_BMI026 = 0 vs.
 Ha: median of a_BMI026 - b_BMI026 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- BMI027 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

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One-sided tests:

Ho: median of a_BMI027 - b_BMI027 = 0 vs.
Ha: median of a_BMI027 - b_BMI027 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI027 - b_BMI027 = 0 vs.
Ha: median of a_BMI027 - b_BMI027 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI027 - b_BMI027 = 0 vs.
Ha: median of a_BMI027 - b_BMI027 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- BMI028 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI028 - b_BMI028 = 0 vs.
Ha: median of a_BMI028 - b_BMI028 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI028 - b_BMI028 = 0 vs.
Ha: median of a_BMI028 - b_BMI028 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI028 - b_BMI028 = 0 vs.
Ha: median of a_BMI028 - b_BMI028 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- BMI029 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI029 - b_BMI029 = 0 vs.
Ha: median of a_BMI029 - b_BMI029 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI029 - b_BMI029 = 0 vs.
Ha: median of a_BMI029 - b_BMI029 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_BMI029 - b_BMI029 = 0 vs.
 Ha: median of a_BMI029 - b_BMI029 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI030 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_BMI030 - b_BMI030 = 0 vs.
 Ha: median of a_BMI030 - b_BMI030 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI030 - b_BMI030 = 0 vs.
 Ha: median of a_BMI030 - b_BMI030 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI030 - b_BMI030 = 0 vs.
 Ha: median of a_BMI030 - b_BMI030 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI031 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BMI031 - b_BMI031 = 0 vs.
 Ha: median of a_BMI031 - b_BMI031 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI031 - b_BMI031 = 0 vs.
 Ha: median of a_BMI031 - b_BMI031 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI031 - b_BMI031 = 0 vs.
 Ha: median of a_BMI031 - b_BMI031 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI032 -----

Sign test

sign	observed	expected
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positive		0	0	
negative		0	0	
zero		1	1	

all		1	1	

One-sided tests:

Ho: median of a_BMI032 - b_BMI032 = 0 vs.
 Ha: median of a_BMI032 - b_BMI032 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI032 - b_BMI032 = 0 vs.
 Ha: median of a_BMI032 - b_BMI032 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI032 - b_BMI032 = 0 vs.
 Ha: median of a_BMI032 - b_BMI032 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI033 -----

Sign test

sign		observed	expected
positive		0	0
negative		0	0
zero		1	1

all		1	1

One-sided tests:

Ho: median of a_BMI033 - b_BMI033 = 0 vs.
 Ha: median of a_BMI033 - b_BMI033 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI033 - b_BMI033 = 0 vs.
 Ha: median of a_BMI033 - b_BMI033 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI033 - b_BMI033 = 0 vs.
 Ha: median of a_BMI033 - b_BMI033 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI034 -----

Sign test

sign		observed	expected
positive		0	0
negative		0	0
zero		1	1

all		1	1

One-sided tests:

Ho: median of a_BMI034 - b_BMI034 = 0 vs.
 Ha: median of a_BMI034 - b_BMI034 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_BMI034 - b_BMI034 = 0 vs.
 Ha: median of a_BMI034 - b_BMI034 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI034 - b_BMI034 = 0 vs.
 Ha: median of a_BMI034 - b_BMI034 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI035 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_BMI035 - b_BMI035 = 0 vs.
 Ha: median of a_BMI035 - b_BMI035 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI035 - b_BMI035 = 0 vs.
 Ha: median of a_BMI035 - b_BMI035 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI035 - b_BMI035 = 0 vs.
 Ha: median of a_BMI035 - b_BMI035 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI036 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:
 Ho: median of a_BMI036 - b_BMI036 = 0 vs.
 Ha: median of a_BMI036 - b_BMI036 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI036 - b_BMI036 = 0 vs.
 Ha: median of a_BMI036 - b_BMI036 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI036 - b_BMI036 = 0 vs.
 Ha: median of a_BMI036 - b_BMI036 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI037 -----

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Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BMI037 - b_BMI037 = 0 vs.
 Ha: median of a_BMI037 - b_BMI037 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI037 - b_BMI037 = 0 vs.
 Ha: median of a_BMI037 - b_BMI037 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI037 - b_BMI037 = 0 vs.
 Ha: median of a_BMI037 - b_BMI037 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI038 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BMI038 - b_BMI038 = 0 vs.
 Ha: median of a_BMI038 - b_BMI038 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI038 - b_BMI038 = 0 vs.
 Ha: median of a_BMI038 - b_BMI038 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI038 - b_BMI038 = 0 vs.
 Ha: median of a_BMI038 - b_BMI038 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI039 -----

Sign test

sign	observed	expected
positive	0	0
negative	0	0
zero	1	1
all	1	1

One-sided tests:

Ho: median of a_BMI039 - b_BMI039 = 0 vs.

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Ha: median of a_BMI039 - b_BMI039 > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI039 - b_BMI039 = 0 vs.
 Ha: median of a_BMI039 - b_BMI039 < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:
 Ho: median of a_BMI039 - b_BMI039 = 0 vs.
 Ha: median of a_BMI039 - b_BMI039 != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000
 ----- BMI040 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_BMI040 - b_BMI040 = 0 vs.
 Ha: median of a_BMI040 - b_BMI040 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI040 - b_BMI040 = 0 vs.
 Ha: median of a_BMI040 - b_BMI040 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_BMI040 - b_BMI040 = 0 vs.
 Ha: median of a_BMI040 - b_BMI040 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- BMI041 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:
 Ho: median of a_BMI041 - b_BMI041 = 0 vs.
 Ha: median of a_BMI041 - b_BMI041 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI041 - b_BMI041 = 0 vs.
 Ha: median of a_BMI041 - b_BMI041 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:
 Ho: median of a_BMI041 - b_BMI041 = 0 vs.
 Ha: median of a_BMI041 - b_BMI041 != 0

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Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- BMI042 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	1	1
all	2	2

One-sided tests:

Ho: median of a_BMI042 - b_BMI042 = 0 vs.
 Ha: median of a_BMI042 - b_BMI042 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI042 - b_BMI042 = 0 vs.
 Ha: median of a_BMI042 - b_BMI042 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_BMI042 - b_BMI042 = 0 vs.
 Ha: median of a_BMI042 - b_BMI042 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- BMI043 -----

Sign test

sign	observed	expected
positive	2	1
negative	0	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_BMI043 - b_BMI043 = 0 vs.
 Ha: median of a_BMI043 - b_BMI043 > 0
 Pr(#positive >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Ho: median of a_BMI043 - b_BMI043 = 0 vs.
 Ha: median of a_BMI043 - b_BMI043 < 0
 Pr(#negative >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_BMI043 - b_BMI043 = 0 vs.
 Ha: median of a_BMI043 - b_BMI043 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- BMI044 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0

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One-sided tests:

Ho: median of a_BMI044 - b_BMI044 = 0 vs.
 Ha: median of a_BMI044 - b_BMI044 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_BMI044 - b_BMI044 = 0 vs.
 Ha: median of a_BMI044 - b_BMI044 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_BMI044 - b_BMI044 = 0 vs.
 Ha: median of a_BMI044 - b_BMI044 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- UND001 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_UND001 - b_UND001 = 0 vs.
 Ha: median of a_UND001 - b_UND001 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_UND001 - b_UND001 = 0 vs.
 Ha: median of a_UND001 - b_UND001 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_UND001 - b_UND001 = 0 vs.
 Ha: median of a_UND001 - b_UND001 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW001 -----

Sign test

sign	observed	expected
positive	5	2.5
negative	0	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a_OVW001 - b_OVW001 = 0 vs.
 Ha: median of a_OVW001 - b_OVW001 > 0
 Pr(#positive >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Ho: median of a_OVW001 - b_OVW001 = 0 vs.
 Ha: median of a_OVW001 - b_OVW001 < 0
 Pr(#negative >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

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Two-sided test:

Ho: median of a_OVW001 - b_OVW001 = 0 vs.
 Ha: median of a_OVW001 - b_OVW001 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625
 ----- OVW002 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW002 - b_OVW002 = 0 vs.
 Ha: median of a_OVW002 - b_OVW002 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW002 - b_OVW002 = 0 vs.
 Ha: median of a_OVW002 - b_OVW002 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW002 - b_OVW002 = 0 vs.
 Ha: median of a_OVW002 - b_OVW002 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW003 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW003 - b_OVW003 = 0 vs.
 Ha: median of a_OVW003 - b_OVW003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW003 - b_OVW003 = 0 vs.
 Ha: median of a_OVW003 - b_OVW003 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW003 - b_OVW003 = 0 vs.
 Ha: median of a_OVW003 - b_OVW003 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW004 -----

Sign test

sign	observed	expected
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positive	0	1
negative	2	1
zero	0	0

all	2	2

One-sided tests:

Ho: median of a_OVW004 - b_OVW004 = 0 vs.
 Ha: median of a_OVW004 - b_OVW004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW004 - b_OVW004 = 0 vs.
 Ha: median of a_OVW004 - b_OVW004 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_OVW004 - b_OVW004 = 0 vs.
 Ha: median of a_OVW004 - b_OVW004 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- OVW005 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_OVW005 - b_OVW005 = 0 vs.
 Ha: median of a_OVW005 - b_OVW005 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW005 - b_OVW005 = 0 vs.
 Ha: median of a_OVW005 - b_OVW005 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW005 - b_OVW005 = 0 vs.
 Ha: median of a_OVW005 - b_OVW005 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- OVW006 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_OVW006 - b_OVW006 = 0 vs.
 Ha: median of a_OVW006 - b_OVW006 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_OVW006 - b_OVW006 = 0 vs.
 Ha: median of a_OVW006 - b_OVW006 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OVW006 - b_OVW006 = 0 vs.
 Ha: median of a_OVW006 - b_OVW006 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW007 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OVW007 - b_OVW007 = 0 vs.
 Ha: median of a_OVW007 - b_OVW007 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW007 - b_OVW007 = 0 vs.
 Ha: median of a_OVW007 - b_OVW007 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OVW007 - b_OVW007 = 0 vs.
 Ha: median of a_OVW007 - b_OVW007 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW008 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OVW008 - b_OVW008 = 0 vs.
 Ha: median of a_OVW008 - b_OVW008 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW008 - b_OVW008 = 0 vs.
 Ha: median of a_OVW008 - b_OVW008 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OVW008 - b_OVW008 = 0 vs.
 Ha: median of a_OVW008 - b_OVW008 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW009 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW009 - b_OVW009 = 0 vs.
 Ha: median of a_OVW009 - b_OVW009 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW009 - b_OVW009 = 0 vs.
 Ha: median of a_OVW009 - b_OVW009 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW009 - b_OVW009 = 0 vs.
 Ha: median of a_OVW009 - b_OVW009 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW010 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW010 - b_OVW010 = 0 vs.
 Ha: median of a_OVW010 - b_OVW010 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW010 - b_OVW010 = 0 vs.
 Ha: median of a_OVW010 - b_OVW010 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW010 - b_OVW010 = 0 vs.
 Ha: median of a_OVW010 - b_OVW010 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW011 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW011 - b_OVW011 = 0 vs.

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Ha: median of a_OVW011 - b_OVW011 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW011 - b_OVW011 = 0 vs.
 Ha: median of a_OVW011 - b_OVW011 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OVW011 - b_OVW011 = 0 vs.
 Ha: median of a_OVW011 - b_OVW011 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW012 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OVW012 - b_OVW012 = 0 vs.
 Ha: median of a_OVW012 - b_OVW012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_OVW012 - b_OVW012 = 0 vs.
 Ha: median of a_OVW012 - b_OVW012 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OVW012 - b_OVW012 = 0 vs.
 Ha: median of a_OVW012 - b_OVW012 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW013 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OVW013 - b_OVW013 = 0 vs.
 Ha: median of a_OVW013 - b_OVW013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000
 Ho: median of a_OVW013 - b_OVW013 = 0 vs.
 Ha: median of a_OVW013 - b_OVW013 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OVW013 - b_OVW013 = 0 vs.
 Ha: median of a_OVW013 - b_OVW013 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW014 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW014 - b_OVW014 = 0 vs.
 Ha: median of a_OVW014 - b_OVW014 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW014 - b_OVW014 = 0 vs.
 Ha: median of a_OVW014 - b_OVW014 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW014 - b_OVW014 = 0 vs.
 Ha: median of a_OVW014 - b_OVW014 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW015 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW015 - b_OVW015 = 0 vs.
 Ha: median of a_OVW015 - b_OVW015 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW015 - b_OVW015 = 0 vs.
 Ha: median of a_OVW015 - b_OVW015 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW015 - b_OVW015 = 0 vs.
 Ha: median of a_OVW015 - b_OVW015 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW016 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all | 2_Granular-level_Tax_Results
1 | 1 | 1

One-sided tests:

Ho: median of a_OVW016 - b_OVW016 = 0 vs.
Ha: median of a_OVW016 - b_OVW016 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW016 - b_OVW016 = 0 vs.
Ha: median of a_OVW016 - b_OVW016 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW016 - b_OVW016 = 0 vs.
Ha: median of a_OVW016 - b_OVW016 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- OVW017 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW017 - b_OVW017 = 0 vs.
Ha: median of a_OVW017 - b_OVW017 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW017 - b_OVW017 = 0 vs.
Ha: median of a_OVW017 - b_OVW017 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW017 - b_OVW017 = 0 vs.
Ha: median of a_OVW017 - b_OVW017 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- OVW018 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW018 - b_OVW018 = 0 vs.
Ha: median of a_OVW018 - b_OVW018 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW018 - b_OVW018 = 0 vs.
Ha: median of a_OVW018 - b_OVW018 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

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Two-sided test:

Ho: median of a_OVW018 - b_OVW018 = 0 vs.
 Ha: median of a_OVW018 - b_OVW018 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OVW019 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OVW019 - b_OVW019 = 0 vs.
 Ha: median of a_OVW019 - b_OVW019 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OVW019 - b_OVW019 = 0 vs.
 Ha: median of a_OVW019 - b_OVW019 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OVW019 - b_OVW019 = 0 vs.
 Ha: median of a_OVW019 - b_OVW019 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE001 -----

Sign test

sign	observed	expected
positive	5	2.5
negative	0	2.5
zero	0	0
all	5	5

One-sided tests:

Ho: median of a_OBE001 - b_OBE001 = 0 vs.
 Ha: median of a_OBE001 - b_OBE001 > 0
 Pr(#positive >= 5) =
 Binomial(n = 5, x >= 5, p = 0.5) = 0.0313

Ho: median of a_OBE001 - b_OBE001 = 0 vs.
 Ha: median of a_OBE001 - b_OBE001 < 0
 Pr(#negative >= 0) =
 Binomial(n = 5, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_OBE001 - b_OBE001 = 0 vs.
 Ha: median of a_OBE001 - b_OBE001 != 0
 Pr(#positive >= 5 or #negative >= 5) =
 min(1, 2*Binomial(n = 5, x >= 5, p = 0.5)) = 0.0625
 ----- OBE002 -----

Sign test

sign	observed	expected
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			2_Granular-level_Tax_Results	
positive		1	.5	
negative		0	.5	
zero		0	0	

all		1	1	

One-sided tests:

Ho: median of a_OBE002 - b_OBE002 = 0 vs.
 Ha: median of a_OBE002 - b_OBE002 > 0
 Pr(#positive >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Ho: median of a_OBE002 - b_OBE002 = 0 vs.
 Ha: median of a_OBE002 - b_OBE002 < 0
 Pr(#negative >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_OBE002 - b_OBE002 = 0 vs.
 Ha: median of a_OBE002 - b_OBE002 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- OBE003 -----

Sign test

sign		observed	expected
positive		0	1
negative		2	1
zero		0	0

all		2	2

One-sided tests:

Ho: median of a_OBE003 - b_OBE003 = 0 vs.
 Ha: median of a_OBE003 - b_OBE003 > 0
 Pr(#positive >= 0) =
 Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE003 - b_OBE003 = 0 vs.
 Ha: median of a_OBE003 - b_OBE003 < 0
 Pr(#negative >= 2) =
 Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

Two-sided test:

Ho: median of a_OBE003 - b_OBE003 = 0 vs.
 Ha: median of a_OBE003 - b_OBE003 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000

----- OBE004 -----

Sign test

sign		observed	expected
positive		0	.5
negative		1	.5
zero		0	0

all		1	1

One-sided tests:

Ho: median of a_OBE004 - b_OBE004 = 0 vs.
 Ha: median of a_OBE004 - b_OBE004 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

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Ho: median of a_OBE004 - b_OBE004 = 0 vs.
 Ha: median of a_OBE004 - b_OBE004 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OBE004 - b_OBE004 = 0 vs.
 Ha: median of a_OBE004 - b_OBE004 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE005 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OBE005 - b_OBE005 = 0 vs.
 Ha: median of a_OBE005 - b_OBE005 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE005 - b_OBE005 = 0 vs.
 Ha: median of a_OBE005 - b_OBE005 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OBE005 - b_OBE005 = 0 vs.
 Ha: median of a_OBE005 - b_OBE005 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE006 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OBE006 - b_OBE006 = 0 vs.
 Ha: median of a_OBE006 - b_OBE006 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE006 - b_OBE006 = 0 vs.
 Ha: median of a_OBE006 - b_OBE006 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OBE006 - b_OBE006 = 0 vs.
 Ha: median of a_OBE006 - b_OBE006 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE007 -----

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Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE007 - b_OBE007 = 0 vs.
 Ha: median of a_OBE007 - b_OBE007 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE007 - b_OBE007 = 0 vs.
 Ha: median of a_OBE007 - b_OBE007 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE007 - b_OBE007 = 0 vs.
 Ha: median of a_OBE007 - b_OBE007 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE008 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE008 - b_OBE008 = 0 vs.
 Ha: median of a_OBE008 - b_OBE008 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE008 - b_OBE008 = 0 vs.
 Ha: median of a_OBE008 - b_OBE008 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE008 - b_OBE008 = 0 vs.
 Ha: median of a_OBE008 - b_OBE008 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE009 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE009 - b_OBE009 = 0 vs.

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Ha: median of a_OBE009 - b_OBE009 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE009 - b_OBE009 = 0 vs.
 Ha: median of a_OBE009 - b_OBE009 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OBE009 - b_OBE009 = 0 vs.
 Ha: median of a_OBE009 - b_OBE009 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE010 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OBE010 - b_OBE010 = 0 vs.
 Ha: median of a_OBE010 - b_OBE010 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_OBE010 - b_OBE010 = 0 vs.
 Ha: median of a_OBE010 - b_OBE010 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OBE010 - b_OBE010 = 0 vs.
 Ha: median of a_OBE010 - b_OBE010 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE011 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:
 Ho: median of a_OBE011 - b_OBE011 = 0 vs.
 Ha: median of a_OBE011 - b_OBE011 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

 Ho: median of a_OBE011 - b_OBE011 = 0 vs.
 Ha: median of a_OBE011 - b_OBE011 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:
 Ho: median of a_OBE011 - b_OBE011 = 0 vs.
 Ha: median of a_OBE011 - b_OBE011 != 0

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Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE012 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE012 - b_OBE012 = 0 vs.
 Ha: median of a_OBE012 - b_OBE012 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE012 - b_OBE012 = 0 vs.
 Ha: median of a_OBE012 - b_OBE012 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE012 - b_OBE012 = 0 vs.
 Ha: median of a_OBE012 - b_OBE012 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE013 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE013 - b_OBE013 = 0 vs.
 Ha: median of a_OBE013 - b_OBE013 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE013 - b_OBE013 = 0 vs.
 Ha: median of a_OBE013 - b_OBE013 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE013 - b_OBE013 = 0 vs.
 Ha: median of a_OBE013 - b_OBE013 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE014 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all | 2_Granular-level_Tax_Results
1 1

One-sided tests:

Ho: median of a_OBE014 - b_OBE014 = 0 vs.
Ha: median of a_OBE014 - b_OBE014 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE014 - b_OBE014 = 0 vs.
Ha: median of a_OBE014 - b_OBE014 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE014 - b_OBE014 = 0 vs.
Ha: median of a_OBE014 - b_OBE014 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- OBE015 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE015 - b_OBE015 = 0 vs.
Ha: median of a_OBE015 - b_OBE015 > 0
Pr(#positive >= 0) =
Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE015 - b_OBE015 = 0 vs.
Ha: median of a_OBE015 - b_OBE015 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE015 - b_OBE015 = 0 vs.
Ha: median of a_OBE015 - b_OBE015 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
----- OBE016 -----

Sign test

sign	observed	expected
positive	0	1
negative	2	1
zero	0	0
all	2	2

One-sided tests:

Ho: median of a_OBE016 - b_OBE016 = 0 vs.
Ha: median of a_OBE016 - b_OBE016 > 0
Pr(#positive >= 0) =
Binomial(n = 2, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE016 - b_OBE016 = 0 vs.
Ha: median of a_OBE016 - b_OBE016 < 0
Pr(#negative >= 2) =
Binomial(n = 2, x >= 2, p = 0.5) = 0.2500

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Two-sided test:

Ho: median of a_OBE016 - b_OBE016 = 0 vs.
 Ha: median of a_OBE016 - b_OBE016 != 0
 Pr(#positive >= 2 or #negative >= 2) =
 min(1, 2*Binomial(n = 2, x >= 2, p = 0.5)) = 0.5000
 ----- OBE017 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE017 - b_OBE017 = 0 vs.
 Ha: median of a_OBE017 - b_OBE017 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE017 - b_OBE017 = 0 vs.
 Ha: median of a_OBE017 - b_OBE017 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE017 - b_OBE017 = 0 vs.
 Ha: median of a_OBE017 - b_OBE017 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE018 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0
all	1	1

One-sided tests:

Ho: median of a_OBE018 - b_OBE018 = 0 vs.
 Ha: median of a_OBE018 - b_OBE018 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE018 - b_OBE018 = 0 vs.
 Ha: median of a_OBE018 - b_OBE018 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE018 - b_OBE018 = 0 vs.
 Ha: median of a_OBE018 - b_OBE018 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000
 ----- OBE019 -----

Sign test

sign	observed	expected
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2_Granular-level_Tax_Results		
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_OBE019 - b_OBE019 = 0 vs.
 Ha: median of a_OBE019 - b_OBE019 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE019 - b_OBE019 = 0 vs.
 Ha: median of a_OBE019 - b_OBE019 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE019 - b_OBE019 = 0 vs.
 Ha: median of a_OBE019 - b_OBE019 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- OBE020 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_OBE020 - b_OBE020 = 0 vs.
 Ha: median of a_OBE020 - b_OBE020 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

Ho: median of a_OBE020 - b_OBE020 = 0 vs.
 Ha: median of a_OBE020 - b_OBE020 < 0
 Pr(#negative >= 1) =
 Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE020 - b_OBE020 = 0 vs.
 Ha: median of a_OBE020 - b_OBE020 != 0
 Pr(#positive >= 1 or #negative >= 1) =
 min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- OBE021 -----

Sign test

sign	observed	expected
positive	0	.5
negative	1	.5
zero	0	0

all	1	1

One-sided tests:

Ho: median of a_OBE021 - b_OBE021 = 0 vs.
 Ha: median of a_OBE021 - b_OBE021 > 0
 Pr(#positive >= 0) =
 Binomial(n = 1, x >= 0, p = 0.5) = 1.0000

2_Granular-level_Tax_Results

Ho: median of a_OBE021 - b_OBE021 = 0 vs.
Ha: median of a_OBE021 - b_OBE021 < 0
Pr(#negative >= 1) =
Binomial(n = 1, x >= 1, p = 0.5) = 0.5000

Two-sided test:

Ho: median of a_OBE021 - b_OBE021 = 0 vs.
Ha: median of a_OBE021 - b_OBE021 != 0
Pr(#positive >= 1 or #negative >= 1) =
min(1, 2*Binomial(n = 1, x >= 1, p = 0.5)) = 1.0000

----- CHL001 -----

Sign test

sign	observed	expected
positive	3	1.5
negative	0	1.5
zero	0	0
all	3	3

One-sided tests:

Ho: median of a_CHL001 - b_CHL001 = 0 vs.
Ha: median of a_CHL001 - b_CHL001 > 0
Pr(#positive >= 3) =
Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

Ho: median of a_CHL001 - b_CHL001 = 0 vs.
Ha: median of a_CHL001 - b_CHL001 < 0
Pr(#negative >= 0) =
Binomial(n = 3, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_CHL001 - b_CHL001 = 0 vs.
Ha: median of a_CHL001 - b_CHL001 != 0
Pr(#positive >= 3 or #negative >= 3) =
min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500

. log close
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Subsidies\taxes1.log
log type: text
closed on: 29 Aug 2012, 17:06:19