

9_Aggregate-level-B_Soft-Drinks-Tax_Results

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name: <unnamed>
log: C:\Users\ids29\Documents\Stata\Taxes_Aggregated_Soft_Results.log
log type: text
opened on: 16 Nov 2012, 11:44:09

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.
.
.
. foreach var of varlist PINCBAD- CHL001BAD {
2.
. display "----- `var' -----"
3.
. signtest a_`var' = b_`var' if soft==1
4.
. }
----- PINCBAD -----

```

Sign test

sign	observed	expected
positive	13	135.5
negative	258	135.5
zero	0	0
all	271	271

One-sided tests:

Ho: median of a_PINCBAD - b_PINCBAD = 0 vs.
 Ha: median of a_PINCBAD - b_PINCBAD > 0
 Pr(#positive >= 13) =
 Binomial(n = 271, x >= 13, p = 0.5) = 1.0000

Ho: median of a_PINCBAD - b_PINCBAD = 0 vs.
 Ha: median of a_PINCBAD - b_PINCBAD < 0
 Pr(#negative >= 258) =
 Binomial(n = 271, x >= 258, p = 0.5) = 0.0000

Two-sided test:

Ho: median of a_PINCBAD - b_PINCBAD = 0 vs.
 Ha: median of a_PINCBAD - b_PINCBAD != 0
 Pr(#positive >= 258 or #negative >= 258) =
 min(1, 2*Binomial(n = 271, x >= 258, p = 0.5)) = 0.0000

----- PINCGOOD -----

Sign test

sign	observed	expected
positive	18	26
negative	34	26
zero	17	17
all	69	69

One-sided tests:

Ho: median of a_PINCGOOD - b_PINCGOOD = 0 vs.
 Ha: median of a_PINCGOOD - b_PINCGOOD > 0
 Pr(#positive >= 18) =
 Binomial(n = 52, x >= 18, p = 0.5) = 0.9912

Ho: median of a_PINCGOOD - b_PINCGOOD = 0 vs.
 Ha: median of a_PINCGOOD - b_PINCGOOD < 0
 Pr(#negative >= 34) =
 Binomial(n = 52, x >= 34, p = 0.5) = 0.0182

9_Aggregate-level-B_Soft-Drinks-Tax_Results

Two-sided test:

Ho: median of a_PINCGOOD - b_PINCGOOD = 0 vs.
 Ha: median of a_PINCGOOD - b_PINCGOOD != 0
 Pr(#positive >= 34 or #negative >= 34) =
 min(1, 2*Binomial(n = 52, x >= 34, p = 0.5)) = 0.0365
 ----- ININCBAD -----

Sign test

sign	observed	expected
positive	0	26.5
negative	53	26.5
zero	0	0
all	53	53

One-sided tests:

Ho: median of a_ININCBAD - b_ININCBAD = 0 vs.
 Ha: median of a_ININCBAD - b_ININCBAD > 0
 Pr(#positive >= 0) =
 Binomial(n = 53, x >= 0, p = 0.5) = 1.0000

Ho: median of a_ININCBAD - b_ININCBAD = 0 vs.
 Ha: median of a_ININCBAD - b_ININCBAD < 0
 Pr(#negative >= 53) =
 Binomial(n = 53, x >= 53, p = 0.5) = 0.0000

Two-sided test:

Ho: median of a_ININCBAD - b_ININCBAD = 0 vs.
 Ha: median of a_ININCBAD - b_ININCBAD != 0
 Pr(#positive >= 53 or #negative >= 53) =
 min(1, 2*Binomial(n = 53, x >= 53, p = 0.5)) = 0.0000
 ----- ININCGOOD -----

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_ININCG~D - b_ININCGOOD = 0 vs.
 Ha: median of a_ININCG~D - b_ININCGOOD > 0
 Pr(#positive >= 3) =
 Binomial(n = 3, x >= 3, p = 0.5) = 0.1250

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

Two-sided test:

Ho: median of a_ININCG~D - b_ININCGOOD = 0 vs.
 Ha: median of a_ININCG~D - b_ININCGOOD != 0
 Pr(#positive >= 3 or #negative >= 3) =
 min(1, 2*Binomial(n = 3, x >= 3, p = 0.5)) = 0.2500
 ----- BWINCBAD -----

Sign test

sign	observed	expected
positive	49	98.5

9_Aggregate-level-B_Soft-Drinks-Tax_Results		
negative	148	98.5
zero	23	23
all	220	220

One-sided tests:

Ho: median of a_BWNCBAD - b_BWNCBAD = 0 vs.
 Ha: median of a_BWNCBAD - b_BWNCBAD > 0
 Pr(#positive >= 49) =
 Binomial(n = 197, x >= 49, p = 0.5) = 1.0000

Ho: median of a_BWNCBAD - b_BWNCBAD = 0 vs.
 Ha: median of a_BWNCBAD - b_BWNCBAD < 0
 Pr(#negative >= 148) =
 Binomial(n = 197, x >= 148, p = 0.5) = 0.0000

Two-sided test:

Ho: median of a_BWNCBAD - b_BWNCBAD = 0 vs.
 Ha: median of a_BWNCBAD - b_BWNCBAD != 0
 Pr(#positive >= 148 or #negative >= 148) =
 min(1, 2*Binomial(n = 197, x >= 148, p = 0.5)) = 0.0000
 ----- CHL001BAD -----

Sign test

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

One-sided tests:

Ho: median of a_CHL001~D - b_CHL001BAD = 0 vs.
 Ha: median of a_CHL001~D - b_CHL001BAD > 0
 Pr(#positive >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Ho: median of a_CHL001~D - b_CHL001BAD = 0 vs.
 Ha: median of a_CHL001~D - b_CHL001BAD < 0
 Pr(#negative >= 0) =
 Binomial(n = 0, x >= 0, p = 0.5) = 1.0000

Two-sided test:

Ho: median of a_CHL001~D - b_CHL001BAD = 0 vs.
 Ha: median of a_CHL001~D - b_CHL001BAD != 0
 Pr(#positive >= 0 or #negative >= 0) =
 min(1, 2*Binomial(n = 0, x >= 0, p = 0.5)) = 1.0000

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.      log close
      name: <unnamed>
      log: C:\Users\ids29\Documents\Stata\Taxes_Aggregated_Soft_Results.log
      log type: text
      closed on: 16 Nov 2012, 11:44:10
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