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name: <Lillian Jiang>
log: C:\Users\ljiang\Desktop\ECO220\Labs\Lab9\analysis\jiang_lab9.log
log type: text
opened on: 14 Nov 2018, 16:15:43

```

```

.
. describe v090

```

variable name	storage type	display format	value label	variable label
v090	byte	%8.0g	v090	gun control

```

.
. label list v090

```

```

v090:
      1 more difficult
      2 same as now
      3 easier
      9 na

```

```

.
. sum v090

```

Variable	Obs	Mean	Std. Dev.	Min	Max
v090	1,544	1.455311	.5787983	1	3

```

.
. tab v090

```

gun control	Freq.	Percent	Cum.
more difficult	908	58.81	58.81
same as now	569	36.85	95.66
easier	67	4.34	100.00
Total	1,544	100.00	

```

.
. gen sgc = 0

```

```

.
. replace sgc =1 if v090 < 2
(908 real changes made)

```

```

.
. replace sgc =. if v090 > 3
(11 real changes made, 11 to missing)

```

```

.
. tab sgc

```

sgc	Freq.	Percent	Cum.
0	636	41.19	41.19
1	908	58.81	100.00
Total	1,544	100.00	

```

.

```

```
. tab v144
```

gender	Freq.	Percent	Cum.
male	674	43.34	43.34
female	881	56.66	100.00
Total	1,555	100.00	

```
.
. tab sgc v144
```

sgc	gender		Total
	male	female	
0	362	274	636
1	306	602	908
Total	668	876	1,544

```
.
. proportion sgc,over(v144) level(99)
```

Proportion estimation Number of obs = 1,544

 _prop_1: sgc = 0

 _prop_2: sgc = 1

 male: v144 = male

 female: v144 = female

		Logit		
Over	Proportion	Std. Err.	[99% Conf. Interval]	
_prop_1				
male	.5419162	.0192919	.4919091	.5910928
female	.3127854	.0156735	.2738487	.3545551
_prop_2				
male	.4580838	.0192919	.4089072	.5080909
female	.6872146	.0156735	.6454449	.7261513

```
.
. sum v090
```

Variable	Obs	Mean	Std. Dev.	Min	Max
v090	1,544	1.455311	.5787983	1	3

```
.
. prtest sgc, by(v144) level(99)
```

Two-sample test of proportions male: Number of obs = 668
 female: Number of obs = 876

Group	Mean	Std. Err.	z	P> z	[99% Conf. Interval]
male	.4580838	.0192775			.4084283 .5077393
female	.6872146	.0156645			.6468655 .7275638


```

      male |          .5   .0193023   .4367052   .5632948
      female |   .6343964   .0162624   .5793159   .6861718
-----

.
. prtest ptc, by(v144) level(99)

Two-sample test of proportions                                male: Number of obs =      672
                                                            female: Number of obs =      878
-----
      Group |          Mean   Std. Err.      z    P>|z|    [99% Conf. Interval]
-----+-----
      male |          .5   .0192879                .4503176   .5496824
      female |   .6343964   .0162532                .5925309   .6762618
-----+-----
      diff |  -.1343964   .0252228                -.199366   -.0694267
      | under Ho:   .0253286   -5.31    0.000
-----
      diff = prop(male) - prop(female)                      z =  -5.3061
Ho: diff = 0

      Ha: diff < 0                      Ha: diff != 0                      Ha: diff > 0
Pr(Z < z) = 0.0000                    Pr(|Z| > |z|) = 0.0000                    Pr(Z > z) = 1.0000

.
. cmdlog close
(cmdlog C:\Users\ljiang\Desktop\ECO220\Labs\Lab9\analysis\jiang_lab9.do closed)

.
. log close
      name: <Lillian Jiang>
      log: C:\Users\ljiang\Desktop\ECO220\Labs\Lab9\analysis\jiang_lab9.log
      log type: text
      closed on: 14 Nov 2018, 16:15:44
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```