

Hypothesis Testing about p

Select the **STAT** button, screen 1 should appear.

Select **TESTS**, screen 2 should appear.

Select **5: 1-PropZTest...**, screen 3 should appear.

On screen 3, p_0 represents the hypothesized value, x represents the number of successes in n trials (this must be a whole number), n is the number of trials, select the correct alternative hypothesis

After entering all of this information select **Calculate** and the information will be displayed, screen 4.

```
2ND CALC TESTS
1:Edit...
2:SortA(
3:SortD(
4:ClrList
5:SetUPEditor
```

Screen 1

```
EDIT CALC TESTS
1:Z-Test...
2:T-Test...
3:2-SampZTest...
4:2-SampTTest...
5:1-PropZTest...
6:2-PropZTest...
7:ZInterval...
```

Screen 2

```
1-PropZTest
P0: .5
x: 560
n: 750
PROP≠P0 <P0  P0
Calculate Draw
```

Screen 3

```
1-PropZTest
PROP>.5
z=13.51048975
P=7.053016E-42
p̂=.7466666667
n=750
```

Screen 4

Notes: If the problem gives p , calculate x by multiplying np and rounding to the nearest whole number.

On screen 4, the z value is your test statistic, the p is the p -value or observed significance level and \hat{p} is equivalent to the sample proportion.