

Confidence Interval for p

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

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

Select **A: 1-PropZInt...**, screen 3 should appear.

On screen 3, x represents the number of successes in n trials (this must be a whole number), n is the number of trials, C-Level is the confidence level

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

```
STAT 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-PropZInt
x:560
n:750
C-Level:.99
Calculate
```

Screen 3

```
1-PropZInt
(.70576,.78757)
P=.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, \hat{p} is equivalent to the sample proportion.