

## Confidence Interval for $\mu$ when $\sigma$ is unknown

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

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

Select **8: TInterval...**, screen 3 should appear.

On screen 3, select **Stats** for Inpt:,  $\bar{x}$  is the sample mean,  $S_x$  is the sample standard deviation,  $n$  is the sample size, C-Level is the confidence level

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

```
TInterval
Inpt:Data STATS
x̄:1.1
Sx:8
n:750
C-Level:.99
Calculate
```

Screen 3

```
TInterval
(.34563,1.8544)
x̄=1.1
Sx=8
n=750
```

Screen 4