Hypothesis Testing TI 83/84
Testing a Claim

Testing a Claim About a Proportion

1. Press **Stat**

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

2. Right arrow to **Tests,** scroll down and select **1-PropZTest**

3. Input:

p_0 = Value of the proportion *according to H_0*

x = Number of successes

n = Sample size

```
1-PropZTest
 p0:.34
 x:480
 n:1711
 prop≠p0 <p0 >p0
 Calculate Draw
```

Choose the *direction of H_1*

Highlight *Calculate* and press [ENTER]

4. Output

z = Test Statistic

p = p-value

```
1-PropZTest
 prop>.34
 z=-5.1922465
 P=.9999998959
 p̂=.2805376973
 n=1711

■
```

Testing a Claim About a Mean: σ Known

1. Press **Stat**
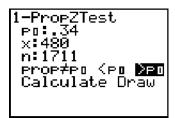2. Right arrow to **Tests,** scroll down and select **Z-Test**
3. Choose *Stats*

Input:

μ_0 = Hypothesized Mean

σ = Population Standard Deviation
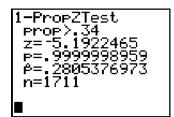
$\bar{x}$ = Sample Mean

n = Sample Size

Choose the *direction of H_1*

```
Z-Test
 Inpt:Data Stats
 μ0:2.4
 σ:4.23
 x̄:2.4
 n:25
 μ:≠μ0 <μ0 >μ0
 Calculate Draw
```

Out Put:

Alternative Hypothesis Restated

z = Test Statistic

p = p-value

```
Z-Test
 μ≠2.4
 z=0
 P=.999999999
 x̄=2.4
 n=25
```

Testing a Claim About a Mean: σ UnKnown

1. Press **Stat**

2. Right arrow to **Tests,** scroll down and select **T-Test**

3. Choose either **Data** or **Stats**

    For **Stats**   Input:

    μ_0 = Hypothesized Mean

    $\bar{x}$ = Sample Mean

    Sx = Sample Standard Deviation

    n = Sample Size

    Choose the **direction of H_1**

```
T-Test
 Inpt:Data Stats
 μ0:8
 x̄:8.7
 Sx:2.3
 n:128
 μ:≠μ0 <μ0 >μ0
 Calculate Draw
```

    Out Put:

    Alternative Hypothesis Restated

    $t =$ Test Statistic

    $p =$ p-value

```
T-Test
 μ>8
 t=3.443302587
 p=3.8944146ᴇ-4
 x̄=8.7
 Sx=2.3
 n=128
 ■
```