









Consider the Sample below

1, 3, 3, 6, 6, 9

1)  $n = 6$     2) Range =  $9 - 1 = 8$     3) Midrange =  $\frac{9+1}{2} = 5$

4) Mode =  $3 \ \& \ 6$

5)  $\sum x = 1 + 3 + 3 + 6 + 6 + 9 = 28$

6)  $\sum x^2 = 1^2 + 3^2 + 3^2 + 6^2 + 6^2 + 9^2 = 172$

7) Compute  $\frac{\sum x}{n}$ , Round to a whole #

$$\frac{\sum x}{n} = \frac{28}{6} = 4.\bar{6} \approx 5$$

8) Compute  $\frac{n \sum x^2 - (\sum x)^2}{n(n-1)}$ , Round to 3-decimal

$$\frac{n \sum x^2 - (\sum x)^2}{n(n-1)} = \frac{6 \cdot 172 - 28^2}{6(6-1)} = \frac{248}{30} = \frac{2 \cdot 124}{2 \cdot 15}$$

$$= \frac{124}{15} = 8.\bar{26}$$

9)  $\sqrt{\text{Last Ans}}$ , Round up to a whole

$$\approx 8.267$$

$$\sqrt{8.267} = 2.875 \approx 3$$

Consider the Sample below

5 5 5 5 5 5

1)  $n = 6$

2)  $\sum x = 5 + 5 + 5 + 5 + 5 + 5 = 30$

3)  $\sum x^2 = 5^2 + 5^2 + 5^2 + 5^2 + 5^2 + 5^2 = 150$

4) Compute  $\frac{\sum x}{n} = \frac{30}{6} = 5$

5) Compute  $\frac{n \sum x^2 - (\sum x)^2}{n(n-1)} = \frac{6 \cdot 150 - 30^2}{6(6-1)}$   
 $= \frac{900 - 900}{30} = \frac{0}{30} = 0$

6)  $\sqrt{\text{Last number}} = \sqrt{0} = 0$

Some TI Instructions:

1) To clear the Screen

**Clear**

2) To quit

**2nd MODE**

3) To clear all lists

**2nd + 4: Clear All Lists Enter**

4) To reset all lists

**STAT 5: Set Up Editor Enter**

Let's clear the Screen

**Clear**

How to store data elements:

store the following sample in a list

2 3 5 5 10

**STAT Edit**  
**1: Edit**

Let's quit

**2nd MODE**

L1
2
3
5
5
10

How to find  $\sum x$  &  $\sum x^2$  using TI:

**STAT** → **CALC**  
**1: 1-Var Stats**

with Menu  
List: L1  
FreqList: Blank  
**Calculate**

Without Menu  
1-Var Stats  
L1 **Enter**

**Enter** →  $\sum x = 25$

clear the Screen  $\sum x^2 = 163$

**Clear**  $n = 5$

