STANDARD DEVIATION

To calculate standard deviation:

1. Calculate the mean.
2. Calculate the difference between the mean and each data value.
3. Square each difference.
4. Add the squared values together.
5. Divide the sum by the total number of data in the set.
6. Find the square root of the quotient from #5. The ± of this value is the standard deviation.

To calculate mean and standard deviation using a Texas Instruments Ti 36X Pro:

1. Press the **DATA** key.
2. Enter data values in list one ($\mathbf{L_1}$).
3. Press the **2nd** key and scroll down to 2: **1-Var Stats** and press **Enter**.
4. Scroll down to **CALC.**
5. The x value is the mean and the Sx value is the standard deviation.

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