How to Find Deviations, Sum of Squares, Variance and Standard Deviation:

(Section 2.4 – Practice with Example 1 or 2 from Lecture Notes)

☐ You are given a list of data in random order

Now in the calculator...

STAT – ENTER (to select 1:Edit)

In L₁ (List 1), enter the Data list. (Type a data value, then ENTER, then the next data value, then ENTER...)

2nd – QUIT (This gets you back to the ‘Main’ screen)

STAT -- ⇒ (To get to CALC) – 1 (To select 1:1-VarStats)

2ND – 1 (This types in L₁ for where your data is listed)

Then hit ENTER or scroll down to blink on Calculate then hit ENTER (This step depends on your calculator type)

Locate: n=, Σx=, and x̅= From these three values you now have the mean

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STAT – ENTER (to select 1:Edit)

⇒ (Right arrow over to the next column) , then ↑ (to be on top of the list)

2ND – 1 (This types in L₁ for where your data is listed) then MINUS (-) YOUR mean value, then ENTER

(This will auto fill the L₂ with your Deviations)

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⇒ (Right arrow over to the next column) , then ↑ (to be on top of the list)

2ND – 2 (This types in L₂ for where your newest data is listed) -- x² -- ENTER

(This will auto fill the L₃ with your Squares of Deviations)

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2nd – QUIT (This gets you back to the ‘Main’ screen)

STAT -- ⇒ (To get to CALC) – 1 (To select 1:1-VarStats)

2ND – 3 (This types in L₁ for where your newest data is listed)

Then hit ENTER or scroll down to blink on Calculate then hit ENTER (This step depends on your calculator type)

Look for Σx² = (This value will be your Sum of Squares)

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Divide by your n equals your Population Variance [Divide by n-1 to find Sample Variance]

Taking the square root of your result for Population Variance will equal your Population/Sample Standard Deviation