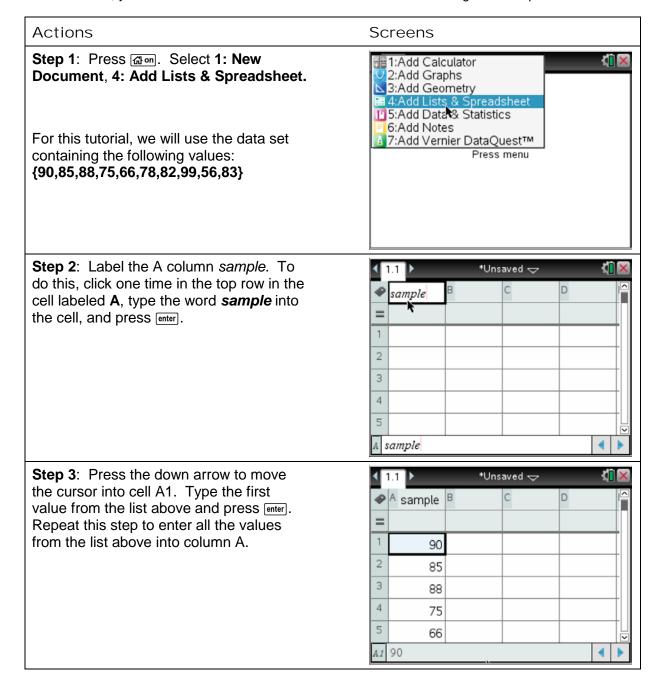
Finding Absolute Mean Deviation

Tutorial Overview

In this tutorial, you will learn how to find the mean absolute deviation using the TI-Nspire™ CX.



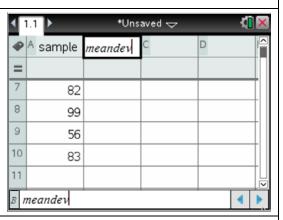


Finding Absolute Mean Deviation

Actions

Step 4: Label the A column *meandev*. To do this, click one time in the top row in the cell labeled **B**, type the word *meandev* into the cell, and press enter.

Screens

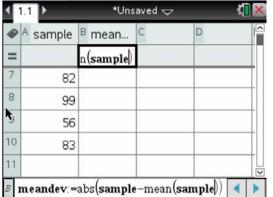


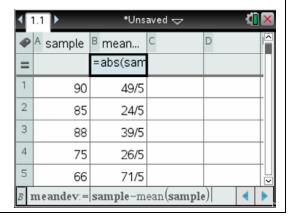
Step 5: The box under the column label for *meandev*, on the row marked with = will be outlined in black.

Press = and type this formula: abs(sample-mean(sample))

Notice down at the bottom of the lists, it changes abs to the symbol: I samplemean(sample) I.

In this list, *meandev*, the mean of each value in the list sample is subtracted from each value in that list. The formula then takes the absolute value of that difference. Hence, all the values in *meandev* are positive.







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Step 6: To find the mean of the list named *meandev*, move to cell C1 and type **=mean(meandev)**

(Notice the formula for cell C1 at the bottom of the lists).

The mean absolute value indicates the average distance between each data value and the mean. Our value of 229/25 or 9.16 tells the average distance each data value is from the mean of the data set.

Screens

