Graphing Calculator

MAD by hand:

1) Calculate mean of data

2) Make dot plot; circle mean

3) Find distances between each point and mean

4) Calculate mean of distances

Mean Absolute Deviation:

Step 1: Enter values into L1

STAT, EDIT, Enter data into L1

Step 2: Calculate the mean of L1

STAT, Arrow to CALC, 1: 1-Var STATs, L1, enter, enter

STAT › 1 2nd 1

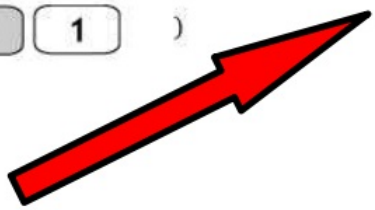
$\bar{x}$ = mean ← **WRITE THIS NUMBER DOWN!!!!**

Step 3: Calculate the absolute value of the distance from each value from the mean.

STAT, EDIT, move curser to over L2 header, type abs(mean from step 2 – L1)

(to get absolute value, type MATH › 1)

(to type L1, type 2nd 1)



Step 4: Calculate the mean absolute deviation (the average of the distance between each value and the mean). You will do this by determining the mean of the L2 since L2 holds the distance from the mean each value.)

STAT › 1 2nd 2 ENTER