

Instructions for performing TI-85 statistics

1. Press the **EXIT** key several times to get to the home screen.
2. Press the **STAT** key
3. Press **F2 (edit)** key from the menu across the bottom of the screen
4. xstat and ystat are just different names for the functions you are entering.
They are fine left the way they are. Press **ENTER** *twice*(2 times)
5. Now the xstat and ystat are across the top of your screen. First press the **F5** button (**CLRxy**) and this clears the values that have been entered before. It is very important to do this every time you edit the data or your results will be wrong!!
6. Whether dealing with a one variable set of data (Stat141) or two variable data (Stat241) determines what you enter for x and y. For one variable, you enter only in the x slots and leave the y slots as 1. Y is used in the two variables. We will work with one variable for the purposes of this lesson.

Example: *Enter 3, 5, 7, 9, 11 as your data*

Enter your first data point in the slot $x_1 =$

Press the **down arrow** *twice* to get to $x_2 =$

Continue this pattern until all your data is entered in the x slots.

7. Once all the data has been entered, hit the yellow **2nd** key, then **F1 (CALC)**
8. Once again, we are talking about the name of the functions, so we do the same as in step 3 and hit **ENTER** *twice*.

9. Now hit the **F1 (1-VAR)** key.

10. Now the screen will show information like below

\bar{x} = this is the average (mean or μ) of the data

$\sum x$ = this is the sum of the data entered

$\sum x^2$ = this is the sum of the terms squared

Sx = this is the sample standard deviation

σx = this is the population standard deviation

n = this is the number of terms that were entered

Example answer:

Your average (mean or μ) should be

7

Your sum should be

35

Your terms squared sum should be

285

Your sample standard deviation should be

3.162

Your population standard deviation should be

2.828

Last one, you put in

5 terms