

## Statistics on the TI-85

Example: Find the mean and standard deviation on the TI-85 for the following sample data.

6 4 2 15 9 2 10

1. Enter data:
  - a. Enter STAT(istics) menu.  
Press **STAT**.
  - b. Enter editor.  
Press **F2:EDIT**.
  - c. Select variables. We'll use the standard xStat and yStat on the TI-85, and xStat and fStat on the TI-86. But, you can name them anything you wish on the TI-85. xStat will hold the x's, and yStat or fStat will hold the frequencies.  
Notice that the xlist name and the ylist name are already set to the last variables used. So if the cursor is already on the word xStat just press **ENTER ENTER**.  
Otherwise, select xStat from the menu. Press **ENTER**. Select yStat from the menu and press **ENTER**.
  - d. If xStat and yStat are not empty, clear old data.  
Press **F5:CLRxy**.
  - e. Type in data.  
Alternate x's and 1's starting with x and press **ENTER** between numbers. For this example, type **6 ENTER 1 ENTER 4 ENTER 1 ENTER 2 ENTER 1 ENTER 15 ENTER 1 ENTER 9 ENTER 1 ENTER 2 ENTER 1 ENTER 10 ENTER 1 ENTER**.
2. Calculate the statistics.  
Press **STAT F1:CALC ENTER ENTER F1:1-VAR**.
3. Read the statistics.

$\bar{X}$  = Mean (both sample and population despite notation).

$\Sigma x$  = Sum of the data.

$\Sigma x^2$  = Sum of the squares of the data.

Sx = Sample standard deviation.

$\sigma x$  = Population standard deviation.

n = Sample size.

Thus, for this data the mean is 6.85714285714 and the standard deviation is 4.77593172161.

Note, I used Sx for the standard deviation since the problem had identified the data as "sample data".

Note: 2 could have been entered once with a frequency of 2 instead of twice with a frequency of one each.