

Statistics on the TI-83/84

Example: Find the mean and standard deviation on the TI-83/84 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 **ENTER**.
 - c. If L1, L2 or L3 are not empty, clear old data.
Use cursor keys to put cursor on the word "L1". Press **CLEAR ENTER**. Repeat with the words "L2" and "L3".
 - d. Type in data.
Enter all x's under L1. Leave L2 AND L3 blank. Move the cursor to the line just below the name L1. For this example, type **6 ENTER 4 ENTER 2 ENTER 15 ENTER 9 ENTER 2 ENTER 10 ENTER** to enter x's.
2. Calculate the statistics.
Press **STAT (cursor right) ENTER ENTER**.
3. Read the statistics. Use (cursor down) and (cursor up) to scroll through the statistics.
 - \bar{X} = Mean (both sample and population despite notation).
 - Σx = Sum of the data.
 - Σx^2 = Sum of the squares of the data.
 - S_x = Sample standard deviation.
 - σ_x = Population standard deviation.
 - n = Sample size.
 - minX = Minimum value.
 - Q_1 = First quartile.
 - Med = Median.
 - Q_3 = Third quartile.
 - maxX = Maximum value.

Thus, for this data the mean is 6.857142857 and the standard deviation is 4.775931722.

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