

Statistics on the TI-89/92

Example: Find the mean and standard deviation on the TI-89/92 for the following sample data.
6 4 2 15 9 2 10

1. Enter data:

a) Type the data as a list.

Type **2nd { 6, 4, 2, 15, 9, 2, 10 2nd }**. Don't press ENTER yet.

b) Store the data into a variable. lets use d for data.

TI-89| Press **STO▶ alpha d**.

TI-92| Press **STO▶ d**.

2. Calculate the statistics.

a) Get the OneVar command on the command line.

Press **2nd MATH 6 ENTER**. Note on the TI-92 you can also just type "onevar".

b) Type the name of the data variable

TI-89| Press **alpha d ENTER**.

TI-92| Press **d ENTER**.

3. Display the statistics.

Type **2nd MATH 6 8 ENTER**. On the TI-92, you could just type "showstat" then press ENTER.

4. 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.

nStat = Sample size.

minX = Minimum value.

q1 = First quartile.

MedStat = Median.

q2 = Third quartile.

maxX = Maximum value.

Thus, for this data the mean is 6.857143 and the standard deviation is 4.775932. Note, I used S_x for the standard deviation since the problem had identified the data as "sample data".

Note: The TI-89 and TI-92 will not calculate the population's standard deviation.