

# Stat Calc Operations: 1-Var Stats

## Compute descriptive statistics for a data list.

For this example, you need data entered in to  $L_1$  in the List Editor; see *handout for Stat Edit Operations: entering data*.

Keystrokes

Screen

First we need to access the Stat Calc Menu.



```

EDIT [STAT] TESTS
1: 1-Var Stats
2: 2-Var Stats
3: Med-Med
4: LinReg(ax+b)
5: QuadReg
6: CubicReg
7: QuartReg
    
```

Select option 1 by pressing **1** or **ENTER**.

```

1-Var Stats
    
```

Select  $L_1$ . You can select other lists here, depending on what data list you are using.



```

1-Var Stats L1
    
```

Note: if you have a list of frequencies in  $L_2$  for your data, enter **1-Var Stats**  $L_1, L_2$

To complete the function, press **ENTER**.

```

1-Var Stats
x̄=5.82
Σx=29.1
Σx²=176.33
Sx=1.319848476
σx=1.180508365
↓n=5
    
```

$\bar{x}$  is the mean of the data elements.

$\sum x$  is the sum of the data elements.

$\sum x^2$  is the sum of the data elements-squared.

**Sx** is the sample standard deviation (formula uses  $n - 1$  in denominator).

**σx** is the population standard deviation (formula uses  $n$  in denominator).

**n** is the number of data elements in the list.

By pressing **↓** five times, you can view the five-number summary.

```

1-Var Stats
↑n=5
minX=3.8
Q1=4.7
Med=5.9
Q3=6.9
maxX=7.4
    
```

minX is the smallest data element.

$Q_1$  is the first quartile of the data set.

Med is the median of the data set.

$Q_3$  is the third quartile of the data set.

maxX is the largest data element.

Note: if you do not press any other keys, you can continue to use the up and down cursors to scroll up and down the descriptive statistics.

More questions? Contact the **Metropolitan State University Math Center** at 651-793-1460, 651-793-1463 (Fax) or [math.center@metrostate.edu](mailto:math.center@metrostate.edu).

Persons with a disability who need reasonable accommodations may call Disability Services at 651-793-1540 or 651-772-7687 (TTY).