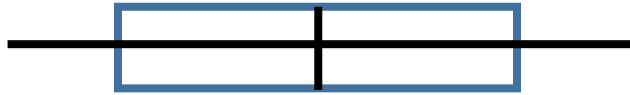


## Box and Whisker



### Measures of Spread

**Range**  -

**IQR**  Quartile

()

**MAD** Mean Absolute Deviation

(How  from the mean is your average )

**Standard Deviation** is a  of how  numbers are.

Its symbol is  $\sigma$  (the Greek letter )

### Outlier

A value that  (is

much smaller or larger than)

of the other  in a set of data.

**Lower than**

**Higher than**

### Measures of Center

**Mean:** is the  of the numbers also called

**Median:** is also the number that is  into the set. (When the data set is in order)

**Mode:** is the value that appears  in a set of data.

### How to determine the best Measure of Center.

**No outlier:** Use the

**With outlier:** Use the

Outliers move the

but

not the

These all can be found by entering your data in your calculator.

**To enter data** push the  button

**To get 5 number summary** (after you have entered the numbers in to the data list.)

scroll to find the numbers.

## 5 Number Summary

\_\_\_\_\_ The smallest number

$Q_1$  \_\_\_\_\_

$Q_2$  \_\_\_\_\_

$Q_3$  \_\_\_\_\_

\_\_\_\_\_ The largest number