Mean, Mode and Range

The **mean** is the average. The average is an important measure of central tendency for a series of values. To find the mean we use

$$Mean = \frac{sum \ of \ the \ values}{number \ of \ values}$$

Symbol: X

Example

Calculate the average of the following set of numbers. S = {-3,-5, 6,-7,-9}

$$\frac{3+5+6+7+9-30}{5}$$
 $\overline{x}=6$

The mode is the value that appears most often in a set of data

Example

Find the mode in the following set of numbers $S = \{1, 2, 3, 5, 3, 6, 2, 7, 3, 9\}$

The **range** measures the dispersion for a given set of numbers.

To calculate the range for a set of numbers, we need to identify the minimum and maximum value in the number set.

Example

Determine the range of the following set of numbers. $S = \{3, 5, 2, 8, 7/3, 8, 8\}$

O Arrange the data from smallest to biggest 2, 3, 3, 5, 5, 7, 8, 9