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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

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

Symbol:


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


The mode is the value that appears most often in a set of data
Example
Find the mode in the following set of numbers $S=\{1,2,3,5,3,6,2,7,3,9\}$

$$
\text { Mode }=3
$$

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. $S=\{3,5,2,8,7 / 3,8,5\}$
(1) Arrange the data from smallest to biggest $2,3,3,5,5,7,8,9$

$$
\text { (2) far ge }=x_{m-}-x_{\min }=9-2=7
$$

