

Name: _____

Mean, Median, Mode, and Range

There are different ways to summarize a data set's center and how much its values vary. The most common are **mean**, **median**, **mode**, and **range**.

Data Set: 10, 3, 8, 1, 8, 3, 7, 8

Mean

The average of the data values.

Step 1: Add all of the data values.

$$10 + 3 + 8 + 1 + 8 + 3 + 7 + 8 = 48$$

Step 2: Divide the sum by the total number of data values.

Median

The middle data value.

Step 1: Order the data values.

1, 3, 3, 7, 8, 8, 8, 10

Step 2: Find the middle value. If a data set has an even number of values, find



Preview

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The most common data value.

Step 1: For large data sets, it can be helpful to order the data values or keep a frequency table.

Step 2: Identify which value occurs most frequently. (**Note:** some data sets have multiple or none.)

10, 3, (8), 1, (8), 3, 7, (8)

The mode is 8.

Mode is one measure of center.

The difference between the greatest and least data values.

Step 1: Order the data values.

1, 3, 3, 7, 8, 8, 8, 10

Step 2: Subtract the smallest value from the largest value.

$$10 - 1 = 9$$

The range is 9.

Range is one measure of variability.