

# Lesson 1 Assessment

## Determining Mean and Mode

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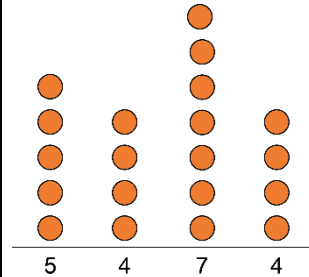
Explains the mean and the mode of a data set

The mean and the mode are single numbers used to represent a data set.

The mean is the average of the data values.

The mode is the value that occurs most often.

Determines the mean and mode using concrete materials



The mode is 4 because it is the number that occurs most often.

To make the stacks the same height, move 1 counter from the stack of 7 to each of the stacks of 4.

Then, there are 5 counters in each stack.

The mean is 5.

Calculates the mean and identifies the mode

Data set:  
36, 42, 25, 40, 42

The mean is:

$$\frac{36 + 42 + 25 + 40 + 42}{5}$$

$$= \frac{185}{5}$$

$$= 37$$

The mean is 37.

The mode is 42.

Explains how the mean and/or mode change when the data in a set change

Data set:  
36, 42, 25, 40, 42

The mean is 37.

The mode is 42.

New data set:  
36, 42, 25, 40

The mean is:

$$\frac{36 + 42 + 25 + 40}{4}$$

$$= \frac{143}{4}$$

$$= 35.75$$

Now, there is no mode and the mean decreases.

### Observations/Documentation