

Find the Median and Mode


Name _____

Learning Target: Find the median and mode of a data set.

Success Criteria:

- I can explain how the median and mode describe a data set with a single number.
- I can find the median of a data set.
- I can find the mode of a data set.

Think and Grow

 **Key Idea** A **measure of center** describes the typical value of a data set. Three measures of center are mean, *median*, and *mode*.

Median For an ordered set of data values, the **median** is the middle value.

Data: 6, 9, 12, 14, 16 The median is 12.

Mode The **mode** of a data set is the value or values that occur most often. Data can have one mode, more than one mode, or no mode.

Data: 4, 5, 5, 7, 7, 7, 8, 10, 13

The mode is 7.

Example Find the median and mode of the video game scores.

First, order the data. Circle the median.
Put a box around the modes.

Video Game Scores

85	75	95	110	125
100	80	110	75	

_____, _____, _____, _____, _____, _____, _____, _____

The median is _____. The modes are _____ and _____.

When all values in a data set occur only once, there is no mode.

Show and Grow

Find the median and mode of the data.

1. Sneaker prices (dollars): 75, 49, 30, 27, 35, 65, 60

2. Number of pieces in several puzzles: 200, 100, 300, 180, 99, 100, 200, 275, 200



Practice

Name _____

Find the median and mode of the data.

3. Number of books read over summer vacation: 2, 9, 7, 8, 2, 11, 10, 2, 7

4. Number of jumping jacks completed in one minute: 65, 65, 59, 75, 69, 67, 56, 56, 66

5. Weekly high temperatures in a city: 77, 78, 87, 76, 74, 89, 88

6. Bowling scores: 145, 197, 119, 98, 103, 112, 180, 103, 178, 148, 127

Find the mean, median, and mode of the data.

7. 28, 31, 30, 24, 29, 35, 26
 8. 74, 69, 69, 80, 43, 32, 64, 32, 59
-
9. **YOU BE THE TEACHER** Newton says the mode of the data below is 4. Is he correct? Explain.
0, 1, 2, 4, 6, 7, 9
 10. **MP Reasoning** Can the mean, median, and mode of a data set all be the same value? Use examples to support your answer.

11. **DIG DEEPER!** Explain how you think you can find the median of the data below.

9, 18, 15, 13, 6, 11, 18, 16

12. **Modeling Real Life** The table shows the prices of several toy drones. Find the mean, median, and mode of the prices. Which measure do you think best represents the data? Explain your reasoning.

Toy Drone Prices (dollars)		
180	125	145
95	115	100
150	250	100



ewg3D / iStock/Getty Images Plus