

9.3 MEASURES OF CENTER

Guided Notes

1

A **measure of center** is a measure that _____ the _____ value of a data set. The _____ is one type of _____ Here are two others.

Key Ideas

Median

Words _____ the data. For a set with an _____ number of values, the **median** is the _____ value. For a set with an _____ number of values, the **median** is the _____ of the _____ values.

Numbers Data:

Data:

The median is

Mode

Words The **mode** of a data set is the _____ or _____ that occur _____ Data can have _____ mode, _____ mode, or _____ mode. When all values occur only once, there is _____

Numbers Data:

Study Tip

The mode is the measure of center that you can use to describe a set of data that is made up of _____

EXAMPLE 1 Finding the Median and Mode

2

Find the median and mode of the bowling scores.

Median:

Mode:

Bowling Scores				
120	135	160	125	90
205	160	175	105	145

••• The median is . The mode is .

EXAMPLE 2 Finding the Mode

The list shows the favorite types of movies for students in a class. Organize the data in a frequency table. Then find the mode.

Favorite Types of Movies

Comedy Drama Horror
 Horror Drama Horror
 Comedy Comedy Action
 Action Comedy Action
 Horror Drama Comedy
 Comedy Comedy Horror
 Horror Comedy Action
 Horror Action Drama

Type	Tally	Frequency
Action		
Comedy		
Drama		
Horror		

received the most votes.

••• So, the mode is

EXAMPLE 3 Choosing the Best Measure of Center

3

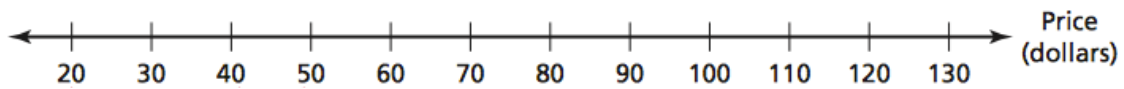
Find the mean, median, and mode of the sneaker prices. Which measure best represents the data?



Mean: _____ = _____, or

Median:

Mode:



EXAMPLE 4 Removing an Outlier

Identify the outlier in Example 3. Find the mean, median, and mode without the outlier. Which measure does the outlier affect the most?

	Mean	Median	Mode
With Outlier (Example 3)			
Without Outlier			

