



Vocabulary and Concept Check

- NUMBER SENSE** Give an example of a data set that has no mode.
- WRITING** Which is affected most by an outlier: the mean, median, or mode? Explain.
- WHICH ONE DOESN'T BELONG** Which word does *not* belong with the other three? Explain.

median

outlier

mode

mean

- NUMBER SENSE** A data set has a mean of 7, a median of 5, and a mode of 8. Which of the numbers 7, 5, and 8 *must* be in the data set? Explain.

Find the median and mode(s) of the data.

5. 9, 7, 2, 4, 3, 5, 9, 6, 8, 0, 3, 8

Median:

Mode(s):

6. 16, 24, 13, 36, 22, 26, 22, 28, 25

Median:

Mode(s):

7. 3, 5, 7, 9, 11, 3, 8

Median:

Mode(s):

8. 14, 19, 16, 13, 16, 14

Median:

Mode(s):

- ERROR ANALYSIS** Describe and correct the error in finding the median of the data.



The median is 58.

63, 55, 49, 58, 50, 59, 51

Fill in the frequency table for the data then find the Mode. Explain what the Mode means.

10.

Shirt Color		
Black	Blue	Red
Pink	Black	Black
Gray	Green	Blue
Blue	Blue	Red
Yellow	Blue	Blue
Black	Orange	Black
Black		

Shirt Color	Tally	Frequency
Black		
Blue		
Gray		
Green		
Orange		
Pink		
Red		
Yellow		

Find the mean, median, and mode(s) of the data. Choose the measure that best represents the data. Explain your reasoning.

11. 48, 12, 11, 45, 48, 48, 43, 32

Mean:

Median:

Mode(s):

Which is better? Why?

12. 12, 13, 40, 95, 88, 7, 95








Mean:

Median:

Mode(s):

Which is better? Why?

13. WEATHER The weather forecast for a week is shown.

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
							
High	90° F	91° F	89° F	97° F	101° F	99° F	91° F
Low	74° F	78° F	77° F	77° F	83° F	78° F	72° F

a. Find the mean, median, and mode(s) of the high temperatures. Which measure best represents the data? Explain your reasoning.

Mean:

Median:

Mode(s):

Which is better? Why?

b. Repeat part (a) for the low temperatures.

Mean:

Median:

Mode(s):

Which is better? Why?