



## Vocabulary and Concept Check

- VOCABULARY** How are measures of center different from measures of variation?
- VOCABULARY** How many quartiles does a data set have?
- DIFFERENT WORDS, SAME QUESTION** Which is different?

53, 47, 60, 45, 62, 59, 65, 50, 56, 48

What is the interquartile range of the data?

What is the range of the data?

What is the range of the middle half of the data?

What is the difference between the third quartile and the first quartile?

## Find the range of the data.

- 26, 21, 27, 33, 24, 29
- 52, 40, 49, 48, 62, 54, 44, 58, 39
- 133, 117, 152, 127, 168, 146, 174
- 4.8, 5.5, 4.2, 8.9, 3.4, 7.5, 1.6, 3.8

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



49, 48, 51, 41, 35, 44, 38

The range is  $49 - 38$ , or 11.

## Find the median, first quartile, third quartile, and interquartile range of the data.

- 40, 33, 37, 54, 41, 34, 27, 39, 35  
Median:  
  
1<sup>st</sup> Quartile:  
  
3<sup>rd</sup> Quartile:  
  
Interquartile Range:
- 84, 75, 90, 87, 99, 91, 85, 88, 76, 92, 94  
Median:  
  
1<sup>st</sup> Quartile:  
  
3<sup>rd</sup> Quartile:  
  
Interquartile Range:

13. 132, 127, 106, 140, 158, 135, 129, 138

Median:

1<sup>st</sup> Quartile:

3<sup>rd</sup> Quartile:

Interquartile Range:

14. 38, 55, 61, 56, 46, 67, 59, 75, 65, 58

Median:


1<sup>st</sup> Quartile:

3<sup>rd</sup> Quartile:

Interquartile Range:

15. **PAPER AIRPLANE** The table shows the distances traveled by a paper airplane. Find and interpret the range and the interquartile range of the distances.

Distances (feet)			
$13\frac{1}{2}$	$21\frac{1}{2}$	21	$16\frac{3}{4}$
$10\frac{1}{4}$	19	32	$26\frac{1}{2}$
29	$16\frac{1}{4}$	$28\frac{1}{2}$	$18\frac{1}{2}$



Range:

1<sup>st</sup> Quartile:

3<sup>rd</sup> Quartile:

Interquartile Range:

What do these numbers mean?