## Lesson 7.8 Measures of Variability: Range

The **range** of a data set is the difference between the largest value and smallest value contained in the data set.

$$15 - 11 =$$

4

- 1. Put the data set in order from least to greatest.
- 2. Find the largest value and smallest value.
- 3. Subtract.
- 4. The range of this data set is 4.

Find the range of each data set.

a

3

h

5

96, 94, 101, 96, 91, 92

10

8

506, 508, 510, 509

4

11

10, 8, 9, 12, 6, 8

6

7

95, 92, 89, 97, 94, 88

9

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## Lesson 7.9 Measures of Variability: Interquartile Range

The **interquartile range** (IQR) of a data set is the difference between the median of the lower half of a data set and the median of the upper half of the same data set.

$$25 - 13 =$$

- 1. Put the data set in order from least to greatest.
- 2. Find the lower half, median, and upper half of the data set.
- 3. Find the medians of the lower half and upper half.
- 4. Subtract.
- 5. The interquartile range of the data set is 12.

Find the interquartile range for each set of data.

c

**1.** 6, 1, 3, 8, 5, 11, 1, 5

**2.** 70, 75, 90, 100, 95

**3.** 45, 39, 17, 16, 4, 1

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