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.

14

- 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

1. 11, 10, 12, 9

2. 25, 30, 32, 23, 27, 22

3. 36, 33, 37, 37, 41, 33

4. 277, 280, 287, 276

5. 12, 9, 16, 9

b

79, 79, 79, 84

96, 94, 101, 96, 91, 92

506, 508, 510, 509

10, 8, 9, 12, 6, 8

95, 92, 89, 97, 94, 88

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.

- 13, 15, 9, 35, 25, 17, 19
- 9, 13, 15, 17, 19, 25, 35
- 9, 13, 15 17 19, 25, 35
- Q1=13
- Q3 = 25
- 25 13 =

12

- 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

median:

QI:

Q3: _____

IQR:

2. 70, 75, 90, 100, 95

median:

QI: _____

Q3: _____

IQR: _____

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

median:

Q3: / _____

IQR:

b

80, 90, 95, 85, 70

median:

QI:

Q3:

IQR:

45, 43, 13, 11, 5, 2

median:

QI:

Q3: _____

IQR:

29, 58, 15, 75, 22, 16, 64

median:

QI: ____

Q3: _____

IQR:

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