

Name: Class:

Calculate quartiles and interquartile range.

1. In the data set below, what is the lower quartile and the upper quartile?

(10, 2, 5, 6, 5, 6)

2. What is the interquartile range in the data set below?

(6, 12, 8, 15, 9, 7, 5)

3. In the data set below, what are the lower and upper quartiles?

(9, 12, 5, 6, 5, 11)

4. What is the interquartile range in the data set below?

(47, 41, 50, 51, 54, 55, 51, 57, 21, 60)

5. What is the lower quartile, median, upper quartile, and interquartile range in the set below?

(12, 9, 20, 1, 6, 12, 8, 17, 10, 3, 3, 15)

6. Calculate the lower quartile, median, upper quartile, and interquartile range in the set below.

(200, 599, 422, 132, 132, 149, 317, 558, 382)

7. What is the lower quartile, upper quartile, and interquartile range in the data below?

(24, 12, 30, 12, 30, 18, 7, 9, 9, 10, 11, 17, 19, 14, 11, 12, 29, 7)

8. What is the lower quartile, the median, the upper quartile, and the interquartile range in the data below?

(4,562, 2,999, 3,470, 5,812, 4,562, 2,147, 7, 892, 5,815, 6,000)

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Calculate quartiles and interquartile range.

1. In the data set below, what is the lower quartile and the upper quartile?

(10, 2, 5, 6, 5, 6)

The lower quartile is the median of the lower half of the data after being arrange from least to greatest.

Divide the numbers in to two parts: a lower half and an upper half.

lower half → (2, 5, 5,) (6, 6, 10) ← Upper half

Find the lower quartile in the middle of the lower half.

(2, 5, 5)

(2, 6, 10)

The lower quartile is 5

The upper quartile is 6

2. So, the interquartile range of data set is 6.

3. So, the lower quartile range of data set is 5 and the upper quartile is 11.

4. So, the interquartile range of data set is 8.

5. So, the lower quartile range of data set is 4.5, the median is 9.5, the upper quartile is 13.5 and the interquartile range is 9.

6. So, the lower quartile range of data set is 140.5, the median is 317, the upper quartile is 490 and the interquartile range is 349.

7. So, the lower quartile range of data set is 10, the upper quartile is 19 and the interquartile range is 9.

8. So, the lower quartile range of data set is 3,234.5, the median is 4,562, the upper quartile is 5,906 and the interquartile range is 2,671.5.