

## Answer on Question #60168– Math – Statistics and Probability

### Question

1. What are the minimum, first quartile, median, third quartile, and maximum of the data set?

18, 20, 11, 10, 8, 6, 12, 4

### Solution

Sort the data set in the ascending order:

{4, 6, 8, 10, 11, 12, 18, 20}.

The size is  $n = 8$ .

Minimum=4.

The first half is {4, 6, 8, 10}; the second half is {11, 12, 18, 20}.

Median= $(10+11)/2=10.5$ .

The median of the first half {4, 6, 8, 10} is

First quartile= $(6+8)/2=7$ .

The median of the second half {11, 12, 18, 20} is

Third quartile= $(12+18)/2=15$ .

Maximum=20.

**Answer:** 4; 7; 10.5; 15; 20.