

Quartiles

Example: Find the quartiles for the given data: 71, 40, 62, 35, 50, 40, 79, 64, 30.

Solution: Arrange the data in an increasing order.

30, 35, 40, 40, 50, 62, 64, 71, 79

Second quartile : **50**

First quartile : $\frac{35 + 40}{2} = \mathbf{37.5}$ Third quartile : $\frac{64 + 71}{2} = \mathbf{67.5}$

Find the quartiles for each set of numbers.

1) 80, 54, 32, 66, 78,

First quartile : _____

rd quartile : _____

2) 2, 94, 42, 68, 51,

First quartile : _____

rd quartile : _____

3) 92, 52, 34, 41, 24,

First quartile : _____

rd quartile : _____

4) 36, 15, 53, 18, 43,

First quartile : _____ Second quartile : _____ Third quartile : _____

5) Alex is a Customer Service Executive. The number of calls received from 9 AM to 6 PM (every one hour) are the following.

19, 12, 20, 19, 22, 11, 9, 25, 26

Find the first, second and third quartiles.

First quartile : _____ Second quartile : _____ Third quartile : _____

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Quartiles

Sheet 3

Example: Find the quartiles for the given data: 71, 40, 62, 35, 50, 40, 79, 64, 30.

Solution: Arrange the data in an increasing order.

30, 35, 40, 40, 50, 62, 64, 71, 79

Second quartile : **50**

First quartile : $\frac{35 + 40}{2} = \mathbf{37.5}$ Third quartile : $\frac{64 + 71}{2} = \mathbf{67.5}$

Find the quartiles for each set of numbers.

1) 80, 54, 32, 66, 78,

First quartile : _____

rd quartile : 79

2) 2, 94, 42, 68, 51,

First quartile : _____

rd quartile : 71

3) 92, 52, 34, 41, 24,

First quartile : _____

rd quartile : 83

4) 36, 15, 53, 18, 43,

First quartile : 18

Second quartile : 35

Third quartile : 43

5) Alex is a Customer Service Executive. The number of calls received from 9 AM to 6 PM (every one hour) are the following.

19, 12, 20, 19, 22, 11, 9, 25, 26

Find the first, second and third quartiles.

First quartile : 11.5

Second quartile : 19

Third quartile : 23.5

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