

Name : _____

Quartiles

Sheet 1

Example: Find the quartiles for the given data: 5, 32, 9, 11, 10, 15, 21, 8.

Solution: Arrange the data in an increasing order.

5, 8, 9, 10, 11, 15, 21, 32

Second quartile : $\frac{10+11}{2} = 10.5$

First quartile : $\frac{8+9}{2} = 8.5$ Third quartile : $\frac{15+21}{2} = 18$

Find the quartiles for each set of numbers.

1) 32, 13, 46, 28, 51,

First quartile : _____

rd quartile : _____

2) 98, 36, 82, 61, 73,

First quartile : _____

rd quartile : _____

3) 64, 7, 34, 53, 28, 4

First quartile : _____

rd quartile : _____

4) 13, 63, 29, 19, 71,

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

5) The average hibernation periods (in weeks) of Alpine Marmots, Common Poorwills, American Black Bears, Bats, Dwarf Lemurs, Box Turtles and Bumblebees were recorded by a Zoologist.

28, 15, 15, 46, 27, 21, 24

Find the first, second and third quartiles.

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

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Answer Key

Sheet 1

Quartiles

Example: Find the quartiles for the given data: 5, 32, 9, 11, 10, 15, 21, 8.

Solution: Arrange the data in an increasing order.

5, 8, 9, 10, 11, 15, 21, 32

Second quartile : $\frac{10+11}{2} = 10.5$

First quartile : $\frac{8+9}{2} = 8.5$ Third quartile : $\frac{15+21}{2} = 18$

Find the quartiles for each set of numbers.

1) 32, 13, 46, 28, 51,

First quartile : _____

rd quartile : 51

2) 98, 36, 82, 61, 73,

First quartile : _____

rd quartile : 77.5

3) 64, 7, 34, 53, 28, 4

First quartile : _____

rd quartile : 58.5

4) 13, 63, 29, 19, 71,

First quartile : 19 Second quartile : 42.5 Third quartile : 63

5) The average hibernation periods (in weeks) of Alpine Marmots, Common Poorwills, American Black Bears, Bats, Dwarf Lemurs, Box Turtles and Bumblebees were recorded by a Zoologist.

28, 15, 15, 46, 27, 21, 24

Find the first, second and third quartiles.

First quartile : 15 Second quartile : 24 Third quartile : 28

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