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: _____  Second quartile: _____  Third quartile: _____

2) 98, 36, 82, 61, 73

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

3) 64, 7, 34, 53, 28, 45

First quartile: _____  Second quartile: _____  Third 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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