

Mode

The mode is the most occurrence of a data in a set of data.

Example 1

Find the mode of 4, 5, 9, 3, 4, 2, 7, 4

(First arrange the data in the ascending order)

2, 3, 4, 4, 4, 5, 7, 9

The mode is 4.

(The score which occurs most frequently is 4)

**Example 2**

Find the modes of 5, 7, 3, 2, 6, 2, 4, 8, 4, 2, 4

2, 2, 2, 3, 4, 4, 4, 5, 6, 7, 8

The modes are 2 and 4.

Find the mode(s) of each of the following set of data.

1. 6, 3, 8, 3, 5, 9, 7

The mode is _____

2. 2, 5, 2, 4, 6, 8, 2

The mode is _____

3. 12, 15, 19, 12, 20, 25, 12, 12

The mode is _____

4. 25, 14, 18, 20, 14, 18, 16, 13

The mode is _____

5. 3, 5, 6, 9, 11, 5, 9, 7, 9, 5, 14

The modes are _____

6. 18, 25, 16, 19, 16, 25, 27, 16, 25

The modes are _____

7. 32, 27, 29, 30, 27, 30, 25, 27, 30

The modes are _____

8. 3, 5, 2, 7, 3, 2, 6, 8, 3, 2, 7, 3, 2

The modes are _____

9. 15, 20, 12, 15, 17, 25, 15, 12, 23, 12

The modes are _____

10. 12, 10, 15, 18, 12, 16, 18, 12, 13, 18

The modes are _____

Median

The median is the middle value of any set of data arranged in ascending order.



Example 1

Find the median of 3, 5, 2, 8, 4, 9, 5
(First arrange the data in the ascending order)

2, 3, 4, 5, 8, 9

Median is 5

Example 2

Find the median of 12, 18, 16, 24, 8, 20

8, 12, 16, 18, 20, 24

$$\text{Median} = \frac{16+18}{2} = \frac{34}{2} = 17$$

Median is 17

Find the median of the following.

- | | | | |
|-----|---------------------------------|---------------|-------|
| 1. | 8, 12, 4, 10, 7, 9, 15 | The median is | _____ |
| 2. | 10, 16, 24, 14, 18, 8, 15 | The median is | _____ |
| 3. | 12, 20, 16, 18, 24, 32, 30 | The median is | _____ |
| 4. | 32, 25, 40, 28, 36, 54, 48 | The median is | _____ |
| 5. | 10, 20, 50, 30, 70, 69, 100, 80 | The median is | _____ |
| 6. | 12, 8, 16, 24, 32, 40, 28, 36 | The median is | _____ |
| 7. | 50, 30, 70, 40, 80, 100, 60, 70 | The median is | _____ |
| 8. | 24, 35, 10, 23, 48, 39, 50, 42 | The median is | _____ |
| 9. | 35, 5, 75, 35, 45, 15, 25, 45 | The median is | _____ |
| 10. | 121, 98, 102, 125, 113, 93, 105 | The median is | _____ |