

EduSahara™ Learning Center Assignment**Grade : Class X, ICSE****Chapter : Median, Quartiles and Mode****Name : Mode of Ungrouped Data**

The scores obtained by 9 students in a test are

1. 5, 6, 16, 8, 4, 15, 4, 14, 7

Find the mode.

- (i) 16 (ii) $9\frac{3}{8}$ (iii) 4 (iv) $7\frac{1}{2}$ (v) 12

The marks obtained by 13 students in a test are given below.

2. Find their mode marks.

22, 5, 31, 11, 36, 1, 33, 28, 38, 31, 37, 15, 6

- (i) 29 (ii) 32 (iii) 31 (iv) 30 (v) 34

Heights of 16 students (in cm) are given below. Find the mode height.

3. 148, 153, 174, 147, 154, 137, 161, 155, 125, 133, 141, 162, 162, 136, 156
162

- (i) 164 cm (ii) 160 cm (iii) 161 cm (iv) 162 cm (v) 163 cm

Heights of 11 plants (in cm) are given below. Find the mode height.

4. 82, 88, 94, 72, 95, 69, 97, 95, 64, 92, 95

- (i) 97 cm (ii) 95 cm (iii) 93 cm (iv) 96 cm (v) 94 cm

Ages of 13 students (in years) are given below. Find the mode age.

5. 12, 11, 13, 11, 14, 10, 14, 12, 10, 15, 10, 14, 10

- (i) 9 years (ii) 11 years (iii) 8 years (iv) 10 years (v) 12 years

Rainfall of 12 days (in mm) are given below. Find the mode rainfall.

6. 13, 14, 11, 15, 15, 15, 5, 7, 6, 8, 13, 15

- (i) 16 mm (ii) 14 mm (iii) 17 mm (iv) 15 mm (v) 13 mm

Scores of 15 students are given below. Find the mode score.

7. 83, 82, 82, 74, 86, 77, 78, 75, 89, 80, 71, 72, 82, 72, 82

- (i) 81 (ii) 82 (iii) 84 (iv) 80 (v) 83

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8. Temperatures of 14 days (in °C) are given below. Find the mode temperature.

25 , 34 , 26 , 35 , 31 , 33 , 30 , 27 , 32 , 25 , 26 , 31 , 33 , 25

(i) 27 °C (ii) 26 °C (iii) 24 °C (iv) 25 °C (v) 23 °C

Weights of 11 students (in kg) are given below. Find the mode weight.

9. 60 , 53 , 49 , 54 , 52 , 44 , 51 , 57 , 56 , 41 , 41

(i) 43 kg (ii) 41 kg (iii) 42 kg (iv) 39 kg (v) 40 kg

Daily wages of 12 labourers (in ₹) are given below. Find the mode wage.

10. 394 , 467 , 385 , 458 , 323 , 452 , 345 , 344 , 316 , 393 , 319 , 316

(i) ₹ 314.00 (ii) ₹ 317.00 (iii) ₹ 318.00 (iv) ₹ 315.00 (v) ₹ 316.00

11. Find the Mode when Median is 62.6 and Mean is 14.2.

(i) 159.4 (ii) 157.4 (iii) 161.4 (iv) 160.4 (v) 158.4

12. Find the Mode when Median is 49 and Mean is 38.

(i) 72 (ii) 71 (iii) 69 (iv) 73 (v) 70

13. The mean and median of a uni-modal grouped data are 56.9 and 40.8 respectively. Find the mode of the data.

(i) 90.1 (ii) 89.1 (iii) 88.1 (iv) 91.1 (v) 87.1

14. The mean and median of a uni-modal grouped data are 78 and 57 respectively. Find the mode of the data.

(i) 119 (ii) 118 (iii) 122 (iv) 120 (v) 121

15. Empirical relation between Mean, Median and Mode is

(i) Mode = 3Median - 3Mean (ii) Mode = 3Median - 2Mean

(iii) Mode = 3Median + 2Mean (iv) Mode = 2Median - 3Mean

Assignment Key

- 1) (iii)
- 2) (iii)
- 3) (iv)
- 4) (ii)
- 5) (iv)
- 6) (iv)
- 7) (ii)
- 8) (iv)
- 9) (ii)
- 10) (v)
- 11) (i)
- 12) (ii)
- 13) (ii)
- 14) (iv)
- 15) (ii)