

EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Mean and Median of Ungrouped Data****Name : Median of Raw Data**

The scores obtained by 7 students in a test are

1. 7, 16, 3, 18, 17, 10, 8

Find the median.

- (i) 18 (ii) 3 (iii) $11\frac{2}{7}$ (iv) 15 (v) 10
-

2. Find the median of all prime numbers between 50 and 100.

- (i) 74 (ii) 71 (iii) 72 (iv) 69 (v) 73
-

3. Find the median of all the factors of 40.

- (i) $\frac{11}{2}$ (ii) $\frac{13}{2}$ (iii) 7 (iv) $\frac{25}{4}$ (v) $\frac{15}{2}$
-

4. Find the median of first 7 whole numbers.

- (i) 5 (ii) 2 (iii) 4 (iv) 3 (v) 1
-

5. Find the median of all the factors of 20.

- (i) $\frac{7}{2}$ (ii) $\frac{9}{2}$ (iii) 5 (iv) $\frac{17}{4}$ (v) $\frac{11}{2}$
-

6. Find the median of the first 20 odd numbers.

- (i) 20 (ii) 21 (iii) 18 (iv) 23 (v) 19
-

7. Find the median of the first 20 even numbers.

- (i) 23 (ii) 20 (iii) 19 (iv) 21 (v) 22
-

The marks obtained by 15 students in a test are given below.

8. Find their median marks.

10, 14, 41, 48, 35, 23, 46, 34, 38, 4, 39, 43, 17, 16, 24

- (i) 32 (ii) 35 (iii) 33 (iv) 34 (v) 36
-

Heights of 13 students (in cm) are given below. Find the median height.

9. 141, 142, 144, 146, 155, 163, 132, 142, 134, 167, 168, 139, 130

- (i) 144 cm (ii) 141 cm (iii) 143 cm (iv) 142 cm (v) 140 cm
-

Heights of 12 plants (in cm) are given below. Find the median height.

10. 98 , 88 , 60 , 97 , 92 , 63 , 54 , 86 , 96 , 69 , 65 , 57
- (i) $\frac{157}{2}$ cm (ii) 78 cm (iii) $\frac{155}{2}$ cm (iv) $\frac{159}{2}$ cm
-

Ages of 11 students (in years) are given below. Find the median age.

11. 11 , 15 , 11 , 13 , 15 , 13 , 10 , 15 , 15 , 13 , 14
- (i) 11 years (ii) 13 years (iii) 12 years (iv) 15 years (v) 14 years
-

Rainfall of 14 days (in mm) are given below. Find the median rainfall.

12. 5 , 12 , 15 , 6 , 9 , 9 , 15 , 12 , 6 , 10 , 7 , 13 , 5 , 10
- (i) $\frac{19}{2}$ mm (ii) 10 mm (iii) $\frac{21}{2}$ mm (iv) $\frac{23}{2}$ mm
-

Scores of 14 students are given below. Find the median score.

13. 83 , 90 , 83 , 90 , 89 , 79 , 82 , 81 , 84 , 86 , 82 , 88 , 83 , 84
- (i) $\frac{167}{2}$ (ii) 84 (iii) $\frac{169}{2}$ (iv) $\frac{171}{2}$
-

Temperatures of 10 days (in °C) are given below. Find the median temperature.

14. 33 , 34 , 32 , 29 , 29 , 31 , 30 , 26 , 27 , 31
- (i) $\frac{65}{2}$ °C (ii) 31 °C (iii) $\frac{63}{2}$ °C (iv) $\frac{61}{2}$ °C
-

Weights of 15 students (in kg) are given below. Find the median weight.

15. 43 , 56 , 43 , 52 , 51 , 41 , 45 , 57 , 40 , 46 , 40 , 41 , 45 , 58 , 60
- (i) 45 kg (ii) 47 kg (iii) 46 kg (iv) 43 kg (v) 44 kg
-

Daily wages of 11 labourers (in ₹) are given below. Find the median wage.

16. 339 , 334 , 307 , 342 , 478 , 338 , 466 , 408 , 337 , 385 , 330
- (i) ₹ 339.00 (ii) ₹ 338.00 (iii) ₹ 337.00 (iv) ₹ 341.00 (v) ₹ 340.00
-

The observations of an ungrouped data are $x_1, x_2, 2x_1$ and $x_1 < x_2 < 2x_1$.

17. If the mean and median of the data are equal to 12 ,
find the observations of the data
- (i) 8 , 12 , 16 (ii) 12 , 12 , 20
- (iii) 9 , 12 , 18 (iv) 16 , 12 , 32
-

18. The observations of an ungrouped data are x_1, x_2, x_3 and $x_1 < x_2 < x_3$.

If the mean and median of the data are 36 and 24 respectively and $x_3 - x_1 = 60$,

find x_1, x_2, x_3

(i) 16, 24, 76 (ii) 14, 24, 74

(iii) 24, 24, 144 (iv) 12, 24, 72

Given an even number of random samples with the middle two samples as

19. $x + 27$ and $x + 28$ and the median as $29\frac{1}{2}$,

find the value of x .

(i) 3 (ii) 2 (iii) 4 (iv) 0 (v) 1

Assignment Key

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