

EduSahara™ Learning Center Assignment**Grade : Class IX, SSC****Chapter : Statistics****Name : Median of Raw Data**

The scores obtained by 13 students in a test are

1. 1, 17, 12, 1, 14, 19, 15, 6, 6, 5, 1, 17, 7

Find the median.

- (i) 1 (ii) $9\frac{4}{13}$ (iii) 19 (iv) 18 (v) 7
-

The marks obtained by 10 students in a test are given below.

2. Find their median marks.

47, 13, 31, 12, 40, 1, 28, 44, 2, 44

- (i) $\frac{59}{2}$ (ii) $\frac{61}{2}$ (iii) $\frac{117}{4}$ (iv) 30 (v) $\frac{57}{2}$
-

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

3. 166, 131, 156, 131, 147, 174, 140, 153, 136, 147, 146, 159

- (i) 145 cm (ii) 147 cm (iii) 148 cm (iv) 149 cm (v) 146 cm
-

Heights of 14 plants (in cm) are given below. Find the median height.

4. 75, 72, 92, 53, 94, 89, 56, 51, 86, 92, 73, 97, 71, 92

- (i) $\frac{163}{2}$ cm (ii) 81 cm (iii) $\frac{161}{2}$ cm (iv) $\frac{165}{2}$ cm
-

Ages of 14 students (in years) are given below. Find the median age.

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

- (i) 14 years (ii) 15 years (iii) 13 years (iv) 16 years (v) 12 years
-

Rainfall of 11 days (in mm) are given below. Find the median rainfall.

6. 6, 10, 7, 6, 6, 11, 12, 10, 7, 5, 13

- (i) 5 mm (ii) 6 mm (iii) 9 mm (iv) 8 mm (v) 7 mm
-

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

7. 76, 86, 86, 81, 77, 90, 77, 70, 77, 88, 75, 82, 87, 84, 75

- (i) 80 (ii) 83 (iii) 82 (iv) 81 (v) 79
-

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

32 , 32 , 28 , 29 , 27 , 26 , 29 , 30 , 28 , 27

(i) 29°C (ii) $\frac{57}{2}^{\circ}\text{C}$ (iii) $\frac{59}{2}^{\circ}\text{C}$ (iv) $\frac{61}{2}^{\circ}\text{C}$

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

9. 42 , 46 , 41 , 42 , 48 , 40 , 43 , 46 , 47 , 57 , 45 , 51 , 47 , 49 , 40

(i) 46 kg (ii) 45 kg (iii) 47 kg (iv) 48 kg (v) 44 kg

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

10. 362 , 481 , 412 , 377 , 500 , 321 , 383 , 461 , 310 , 354 , 454

(i) ₹ 385.00 (ii) ₹ 383.00 (iii) ₹ 381.00 (iv) ₹ 384.00 (v) ₹ 382.00

11. Find the median of all prime numbers between 30 and 80 .

(i) 56 (ii) 59 (iii) 57 (iv) 55 (v) 54

12. Find the median of all the factors of 10 .

(i) $\frac{7}{2}$ (ii) 4 (iii) $\frac{5}{2}$ (iv) $\frac{9}{2}$ (v) $\frac{13}{4}$

13. Find the median of first 6 whole numbers.

(i) $\frac{5}{2}$ (ii) $\frac{3}{2}$ (iii) $\frac{7}{2}$ (iv) $\frac{9}{4}$ (v) 3

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

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

15. Find the median of the first 15 odd numbers.

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

16. Find the median of the first 15 even numbers.

(i) 19 (ii) 13 (iii) 15 (iv) 16 (v) 17

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

17. $x + 31$ and $x + 32$ and the median as $35\frac{1}{2}$,
find the value of x.

(i) 3 (ii) 1 (iii) 6 (iv) 5 (v) 4

18. Given an even number of random samples with the middle two samples as
 $x + 20$ and $x + 34$ and the median as 35 ,

find the value of x .

- (i) 10 (ii) 6 (iii) 7 (iv) 9 (v) 8
-

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

19. If the mean and median of the data are equal to 15,

find the observations of the data

- (i) 20, 15, 40 (ii) 14, 15, 24

- (iii) 10, 15, 20 (iv) 11, 15, 22
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The observations of an ungrouped data are x_1, x_2, x_3 and $x_1 < x_2 < x_3$.

20. If the mean and median of the data are 42 and 28 respectively and $x_3 - x_1 = 70$,

find x_1, x_2, x_3

- (i) 18, 28, 88 (ii) 28, 28, 168

- (iii) 16, 28, 86 (iv) 14, 28, 84
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Assignment Key

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