

EduSahara™ Learning Center Assignment**Grade : Class VIII, ICSE****Chapter : Statistics****Name : Median of Raw Data****Licensed To : Teachers and Students for non-commercial use**

The scores obtained by 11 students in a test are

1. 12 , 7 , 19 , 11 , 4 , 4 , 15 , 14 , 19 , 14 , 14

Find the median.

- (i) 4 (ii) $12\frac{1}{11}$ (iii) 15 (iv) 14 (v) 19

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2. Find the median of all prime numbers between 30 and 60 .

- (i) 46 (ii) 43 (iii) 42 (iv) 40 (v) 44

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

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

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4. Find the median of first 5 whole numbers.

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

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5. Find the median of all the factors of 30 .

- (i) $\frac{21}{4}$ (ii) $\frac{9}{2}$ (iii) 6 (iv) $\frac{13}{2}$ (v) $\frac{11}{2}$

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

- (i) 20 (ii) 17 (iii) 22 (iv) 19 (v) 21

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

- (i) 21 (ii) 18 (iii) 20 (iv) 22 (v) 24

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

8. Find their median marks.

41 , 33 , 35 , 16 , 20 , 26 , 19 , 15 , 50 , 21 , 23 , 1 , 21

- (i) 21 (ii) 20 (iii) 22 (iv) 23 (v) 18
-

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

9. 127 , 147 , 166 , 140 , 127 , 136 , 127 , 159 , 133 , 139 , 150 , 172 , 161 , 172

- (i) $\frac{289}{2}$ cm (ii) $\frac{291}{2}$ cm (iii) 144 cm (iv) $\frac{287}{2}$ cm
-

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

10. 71 , 72 , 51 , 66 , 95 , 84 , 91 , 94 , 59 , 80 , 61 , 85

- (i) 75 cm (ii) 78 cm (iii) 76 cm (iv) 74 cm (v) 77 cm
-

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

11. 13 , 15 , 12 , 15 , 13 , 13 , 14 , 13 , 12 , 14 , 11

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

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

12. 11 , 8 , 6 , 9 , 10 , 5 , 10 , 9 , 7 , 12 , 9 , 5 , 15 , 12

- (i) 11 mm (ii) 8 mm (iii) 7 mm (iv) 9 mm (v) 10 mm
-

Scores of 12 students are given below. Find the median score.

13. 71 , 89 , 71 , 88 , 89 , 78 , 78 , 85 , 87 , 70 , 80 , 77

- (i) 78 (ii) 79 (iii) 81 (iv) 77 (v) 80
-

Temperatures of 13 days (in °C) are given below. Find the median temperature.

14. 33 , 34 , 32 , 33 , 33 , 34 , 31 , 31 , 25 , 26 , 29 , 28 , 34

- (i) 31 °C (ii) 33 °C (iii) 32 °C (iv) 34 °C (v) 30 °C
-

Weights of 10 students (in kg) are given below. Find the median weight.

15. 54 , 43 , 42 , 41 , 40 , 55 , 40 , 51 , 51 , 50

- (i) 47 kg (ii) $\frac{95}{2}$ kg (iii) $\frac{93}{2}$ kg (iv) $\frac{97}{2}$ kg
-

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

- 16.

481 , 441 , 380 , 447 , 359 , 474 , 436 , 419 , 406 , 385 , 383

(i) ₹ 421.00 (ii) ₹ 419.00 (iii) ₹ 418.00 (iv) ₹ 417.00 (v) ₹ 420.00

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 30 ,
find the observations of the data

(i) 21 , 30 , 42 (ii) 40 , 30 , 80

(iii) 24 , 30 , 44 (iv) 20 , 30 , 40

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

18. If the mean and median of the data are 30 and 20 respectively and $x_3 - x_1 = 50$,

find x_1, x_2, x_3

(i) 12 , 20 , 62 (ii) 14 , 20 , 64

(iii) 10 , 20 , 60 (iv) 20 , 20 , 120

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

19. $x + 14$ and $x + 21$ and the median as $27\frac{1}{2}$,

find the value of x .

(i) 11 (ii) 10 (iii) 7 (iv) 12 (v) 9

Assignment Key

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