EduSahara™ Assignment

Name : Median of Raw Data

Chapter : Statistics

Grade : ICSE Grade VIII

1. The scores obtained by 6 students in a test are given below. Find the median. 13 6 6 3 2 2

   (i) $5\frac{1}{3}$ (ii) 13 (iii) 11 (iv) 2 (v) $4\frac{1}{2}$

2. Find the median of all prime numbers between 40 and 70.

   (i) 54 (ii) 52 (iii) 51 (iv) 53 (v) 56

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

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

4. Find the median of first 6 whole numbers.

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

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

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

6. Find the median of the first 10 odd numbers.

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

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

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

8. The marks obtained by 13 students in a test are given below. Find their median marks.
   15 40 50 47 38 10 40 48 20 6 10 11 16

   (i) 22 (ii) 19 (iii) 18 (iv) 20 (v) 21

9. Heights of 15 students (in cm) are given below. Find the median height.
   141 171 157 169 147 141 154 135 158 142 154 153 134 166 134

   (i) 154 cm (ii) 155 cm (iii) 152 cm (iv) 153 cm (v) 151 cm

10. Heights of 14 plants (in cm) are given below. Find the median height.
    80 75 78 91 85 76 76 73 58 51 58 86 85 90

    (i) 79 cm (ii) 78 cm (iii) 76 cm (iv) 77 cm (v) 75 cm

11. Ages of 14 students (in years) are given below. Find the median age.
    14 10 15 13 13 10 12 13 10 14 11 12 10 14

    (i) $\frac{25}{2}$ years (ii) $\frac{27}{2}$ years (iii) 13 years (iv) $\frac{29}{2}$ years

12. Rainfall of 15 days (in mm) are given below. Find the median rainfall.
5 6 15 6 6 15 8 5 12 15 9 13 12 12 7

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

13. Scores of 10 students are given below. Find the median score.
82 90 74 87 83 82 82 84 82 87

(i) 83 (ii) $\frac{165}{2}$ (iii) $\frac{169}{2}$ (iv) $\frac{167}{2}$

14. Temperatures of 12 days (in °C) are given below. Find the median temperature.
35 35 26 32 28 33 29 27 31 25 26 33

(i) 31 °C (ii) 29 °C (iii) 30 °C (iv) 28 °C (v) 32 °C

15. Weights of 13 students (in kg) are given below. Find the median weight.
42 55 49 41 56 45 50 42 53 43 56 47 48

(i) 48 kg (ii) 47 kg (iii) 49 kg (iv) 46 kg (v) 50 kg

16. Daily wages of 10 labourers (in ₹) are given below. Find the median wage.
402 341 411 482 378 310 415 387 349 455

(i) ₹395.00 (ii) ₹396.50 (iii) ₹394.50 (iv) ₹395.50

17. The observations of an ungrouped data are $x_1, x_2, 2x_1$ and $x_1 < x_2 < 2x_1$.
If the mean and median of the data are equal to 30,
find the observations of the data

(i) 24, 30, 44 (ii) 21, 30, 42 (iii) 40, 30, 80 (iv) 20, 30, 40

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 24 and 16 respectively and $x_3 - x_1 = 40$,
find x_1, x_2, x_3

(i) 8, 16, 48 (ii) 12, 16, 52 (iii) 10, 16, 50 (iv) 16, 16, 96

19. Given an even number of random samples with the middle two samples as
$x + 30$ and $x + 33$ and the median as $34\frac{1}{2}$,
find the value of x.

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

Assignment Key

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