EduSahara™ Assignment

Name : Median of Raw Data

Chapter : Mean and Median of Ungrouped Data

Grade : ICSE Grade IX

1. The scores obtained by 6 students in a test are given below. Find the median. 13 15 1 13 7 15

   (i) 15 (ii) 14 (iii) $10\frac{2}{3}$ (iv) 13 (v) 1

2. Find the median of all prime numbers between 50 and 80.

   (i) 68 (ii) 64 (iii) 67 (iv) 66 (v) 70

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

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

4. Find the median of first 6 whole numbers.

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

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

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

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

   (i) 13 (ii) 9 (iii) 10 (iv) 11 (v) 8

7. Find the median of the first 10 even numbers.

   (i) 12 (ii) 13 (iii) 9 (iv) 11 (v) 10

8. The marks obtained by 12 students in a test are given below. Find their median marks.
   30 23 17 48 18 14 41 40 19 39 38 48

   (i) 33 (ii) 34 (iii) 37 (iv) 35 (v) 31

9. Heights of 13 students (in cm) are given below. Find the median height.
   161 134 175 161 127 129 137 135 133 136 156 145 133

   (i) 134 cm (ii) 137 cm (iii) 136 cm (iv) 135 cm (v) 138 cm

10. Heights of 10 plants (in cm) are given below. Find the median height.
    53 83 81 52 82 95 80 66 95 64

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

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

    (i) $\frac{27}{2}$ years (ii) $\frac{23}{2}$ years (iii) 12 years (iv) $\frac{25}{2}$ years

12. Rainfall of 14 days (in mm) are given below. Find the median rainfall.
9 15 9 7 11 8 15 8 10 12 15 10 13 12

(i) $\frac{21}{2}$ mm (ii) $\frac{25}{2}$ mm (iii) 11 mm (iv) $\frac{23}{2}$ mm

13. Scores of 12 students are given below. Find the median score.
90 71 74 88 90 87 88 89 86 83 85 72

(i) $\frac{177}{2}$ (ii) $\frac{173}{2}$ (iii) $\frac{175}{2}$ (iv) 87

14. Temperatures of 13 days (in °C) are given below. Find the median temperature.
25 30 26 34 27 35 26 31 29 26 35 35 29

(i) 30 °C (ii) 29 °C (iii) 31 °C (iv) 27 °C (v) 28 °C

15. Weights of 11 students (in kg) are given below. Find the median weight.
48 51 40 49 45 54 47 47 52 45 52

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

16. Daily wages of 13 labourers (in ₹) are given below. Find the median wage.
334 315 374 331 305 338 484 400 310 486 357 378 343

(i) ₹341.00 (ii) ₹342.00 (iii) ₹344.00 (iv) ₹343.00 (v) ₹345.00

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 27,
find the observations of the data

(i) 22, 27, 40 (ii) 19, 27, 38 (iii) 18, 27, 36 (iv) 36, 27, 72

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 6 and 4 respectively and $x_3 - x_1 = 10$,
find x_1, x_2, x_3

(i) 2, 4, 12 (ii) 4, 4, 24 (iii) 6, 4, 16 (iv) 4, 4, 14

19. Given an even number of random samples with the middle two samples as
$x + 30$ and $x + 34$ and the median as 39,
find the value of x.

(i) 4 (ii) 10 (iii) 7 (iv) 6 (v) 8

Assignment Key

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