EduSahara™ Assignment

Name : Median of Raw Data

Chapter : Statistics

Grade : ICSE Grade VIII

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1. The scores obtained by 6 students in a test are given below. Find the median. 8 3 9 15 13 10

   (i) $9\frac{1}{2}$ (ii) $9\frac{2}{3}$ (iii) 15 (iv) 3 (v) 12

2. Find the median of all prime numbers between 10 and 90.

   (i) 42 (ii) 44 (iii) 45 (iv) 46 (v) 48

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

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

4. Find the median of first 7 whole numbers.

   (i) 0 (ii) 2 (iii) 3 (iv) 6 (v) 4

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

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

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

   (i) 14 (ii) 15 (iii) 18 (iv) 16 (v) 13

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

   (i) 17 (ii) 18 (iii) 15 (iv) 16 (v) 14

8. The marks obtained by 11 students in a test are given below. Find their median marks.
   27 19 19 40 34 5 10 25 39 24 23

   (i) 27 (ii) 23 (iii) 22 (iv) 25 (v) 24

9. Heights of 15 students (in cm) are given below. Find the median height.
   163 153 156 136 143 135 126 161 126 125 165 163 159 137 129

   (i) 141 cm (ii) 144 cm (iii) 145 cm (iv) 142 cm (v) 143 cm

10. Heights of 13 plants (in cm) are given below. Find the median height.
    66 83 65 51 69 62 89 57 51 55 66 64 84

    (i) 65 cm (ii) 67 cm (iii) 64 cm (iv) 66 cm (v) 63 cm

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

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

12. Rainfall of 14 days (in mm) are given below. Find the median rainfall.
6 10 8 14 11 13 13 13 14 12 10 5 6 15

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

13. Scores of 11 students are given below. Find the median score.
77 78 78 79 84 74 85 76 78 83 80

(i) 79 (ii) 80 (iii) 76 (iv) 78 (v) 77

14. Temperatures of 14 days (in °C) are given below. Find the median temperature.
28 25 27 34 34 31 32 27 30 32 30 35 30 28

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

15. Weights of 12 students (in kg) are given below. Find the median weight.
48 55 52 48 41 47 52 52 49 42 52 58

(i) $\frac{101}{2}$ kg (ii) $\frac{105}{2}$ kg (iii) $\frac{103}{2}$ kg (iv) 51 kg

16. Daily wages of 15 labourers (in ₹) are given below. Find the median wage.
380 409 401 325 446 329 437 362 312 453 312 311 312 329 385

(i) ₹363.00 (ii) ₹362.00 (iii) ₹361.00 (iv) ₹360.00 (v) ₹364.00

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 6,
find the observations of the data

(i) 4,6,8 (ii) 8,6,16 (iii) 5,6,10 (iv) 8,6,12

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

19. Given an even number of random samples with the middle two samples as
$x + 33$ and $x + 35$ and the median as 43,
find the value of x.

(i) 6 (ii) 9 (iii) 8 (iv) 10 (v) 12

Assignment Key

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

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