EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Mean and Median of Ungrouped Data

Grade : ICSE Grade IX

1. Given the mean of 15 samples as $11\frac{2}{3}$, what is the mean if a sample value is increased by 10 ?

   (i) $\frac{61}{5}$ (ii) $\frac{37}{3}$ (iii) $\frac{35}{3}$ (iv) 13

2. Scores of 13 students are given below. Find the median score.

   73 80 72 83 71 84 77 79 83 72 87 86 75

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

3. Daily wages of 10 labourers (in ₹) are given below. Find the median wage.

   424 388 338 457 333 423 412 333 395 403

   (i) ₹398.00 (ii) ₹397.00 (iii) ₹399.00 (iv) ₹401.00 (v) ₹400.00

4. If the mean of 5 samples is $27\frac{4}{5}$,

   what is the new mean if 7 is subtracted from each number.

   (i) $\frac{102}{5}$ (ii) $\frac{64}{3}$ (iii) $\frac{106}{5}$ (iv) $\frac{104}{5}$ (v) $\frac{144}{7}$

5. Find the mean of first 9 multiples of 9.

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

6. If the mean of the following frequency distribution is $7\frac{2}{27}$,

   find the value of 'x'.

Value	Frequency
1	2
3	2
4	2
5	3
6	4
7	3
8	x
9	1
10	4
11	2
12	3

   (i) 3 (ii) 1 (iii) 2 (iv) -1 (v) 0

7. Heights of 20 students are given below. Find the median.

Height (in cm)	132	135	139	142	146	155	159	168	169	170
No. of students	1	1	4	2	1	5	1	2	2	1

   (i) 153 cm (ii) 154 cm (iii) 156 cm (iv) 155 cm (v) 157 cm

8. The scores obtained by 14 students in a test are given below. Find the mean score.
17 1 8 16 16 5 14 2 17 5 7 12 6 9

(i) 17 (ii) 1 (iii) $9\frac{9}{14}$ (iv) $8\frac{1}{2}$ (v) 16

9. 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 18,
find the observations of the data

(i) 12,18,24 (ii) 24,18,48 (iii) 16,18,28 (iv) 13,18,26

10. If the mean of 4 samples is $29\frac{1}{2}$,
what is the new mean if 8 is added to each number.

(i) $\frac{77}{2}$ (ii) $\frac{73}{2}$ (iii) 38 (iv) $\frac{149}{4}$ (v) $\frac{75}{2}$

11. Given an even number of random samples with the middle two samples as
$x + 24$ and $x + 26$ and the median as 32,
find the value of x.

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

12. The marks obtained by 14 students in a test are given below. Find the mean of their marks when the marks of each student is increased by 6.
27 44 24 41 3 19 13 50 41 17 20 44 19 33

(i) $\frac{477}{14}$ (ii) $\frac{137}{4}$ (iii) $\frac{481}{14}$ (iv) $\frac{547}{16}$ (v) $\frac{479}{14}$

13. Weights of 13 students (in kg) are given below. Find the median weight.
40 51 54 54 53 49 51 48 46 52 53 50 59

(i) 50 kg (ii) 49 kg (iii) 52 kg (iv) 51 kg (v) 53 kg

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

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

15. Heights of 20 plants are given below. Find the median.

Height (in cm)	58	65	67	72	79	80	88	93	99	100
No. of plants	4	1	2	1	2	2	2	3	1	2

(i) $\frac{161}{2}$ cm (ii) $\frac{159}{2}$ cm (iii) 80 cm (iv) $\frac{163}{2}$ cm

16. The scores obtained by 12 students in a test are given below. Find the median.
7 1 19 6 14 12 17 5 6 9 17 19

(i) 11 (ii) $10\frac{1}{2}$ (iii) 6 (iv) 1 (v) 18

17. The marks obtained by 11 students in a test are given below. Find the mean of their marks when the marks of each student is doubled.
31 32 11 34 16 34 26 41 44 25 19

(i) $\frac{626}{11}$ (ii) $\frac{624}{11}$ (iii) $\frac{514}{9}$ (iv) $\frac{628}{11}$ (v) $\frac{738}{13}$

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

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

19. Rainfall of 10 days (in mm) are given below. Find the median rainfall.

15 11 10 14 5 11 8 11 5 7

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

20. Ages of 25 students are given below. Find the median.

Age (in years)	10	11	12	13	14	15
No. of students	3	6	2	4	4	6

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

21. Rainfall of 12 days (in mm) are given below. Find the mean rainfall.

14 12 11 14 6 5 11 13 11 7 15 9

(i) $\frac{32}{3}$ mm (ii) 11 mm (iii) $\frac{34}{3}$ mm (iv) $\frac{38}{3}$ mm (v) $\frac{35}{3}$ mm

22. Weights of 10 students are given below. Find the mean.

Weight (in kg)	42	44	45	52	53	55	58	59	60
No. of students	1	1	1	1	1	2	1	1	1

(i) $\frac{105}{2}$ kg (ii) $\frac{262}{5}$ kg (iii) $\frac{523}{10}$ kg (iv) $\frac{533}{10}$ kg (v) $\frac{543}{10}$ kg

23. If the mean of 3 1 4 8 x 2 5 7 is $4\frac{1}{2}$, find the value of x.

(i) 7 (ii) 4 (iii) 5 (iv) 9 (v) 6

24. Wages of 10 labourers are given below. Find the median.

Wage (in rupees)	327	348	353	355	387	406	428	470	498
No. of labourers	1	1	1	2	1	1	1	1	1

(i) ₹373.00 (ii) ₹370.00 (iii) ₹369.00 (iv) ₹372.00 (v) ₹371.00

25. Find the mean of the first 10 even numbers.

(i) 13 (ii) 8 (iii) 10 (iv) 11 (v) 12

Assignment Key

1) (ii)	2) (iii)	3) (iii)	4) (iv)	5) (i)	6) (ii)
7) (iv)	8) (iii)	9) (i)	10) (v)	11) (iii)	12) (v)
13) (iv)	14) (i)	15) (ii)	16) (ii)	17) (i)	18) (v)
19) (iii)	20) (iii)	21) (i)	22) (iii)	23) (v)	24) (v)
25) (iv)					