EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Mean and Median of Ungrouped Data

Grade : ICSE Grade IX

1. Weights of 15 students are given below. Find the mean.

Weight (in kg)	42	45	47	49	51	56	58	60
No. of students	2	1	3	2	4	1	1	1

(i) $\frac{249}{5}$ kg (ii) $\frac{746}{15}$ kg (iii) $\frac{776}{15}$ kg (iv) $\frac{761}{15}$ kg (v) $\frac{748}{15}$ kg

2. Given the mean of 12 samples as $4\frac{3}{4}$,

what is the new mean if two samples 4 and 2 are removed ?

(i) $\frac{53}{10}$ (ii) $\frac{51}{10}$ (iii) $\frac{41}{8}$ (iv) $\frac{49}{10}$ (v) $\frac{61}{12}$

3. If the mean of 9 3 4 x 10 1 is $5\frac{5}{6}$, find the value of x.

(i) 9 (ii) 11 (iii) 7 (iv) 8 (v) 5

4. If the mean of 5 samples is $24\frac{3}{5}$,

what is the new mean if 8 is subtracted from each number.

(i) $\frac{81}{5}$ (ii) $\frac{83}{5}$ (iii) 17 (iv) $\frac{115}{7}$

5. Temperatures of 30 days are given below. Find the mean.

Temperature (in degree C)	25	26	27	28	29	30	31	32	33	34	35
No. of days	3	2	2	2	5	1	3	2	4	4	2

(i) $\frac{967}{30}$ °C (ii) $\frac{303}{10}$ °C (iii) $\frac{454}{15}$ °C (iv) $\frac{937}{30}$ °C (v) $\frac{907}{30}$ °C

6. Ages of 30 students are given below. Find the median.

Age (in years)	10	11	12	13	14	15
No. of students	5	7	5	4	6	3

(i) 12 years (ii) 10 years (iii) 13 years (iv) 14 years (v) 11 years

7. Rainfall of 10 days are given below. Find the mean.

Rainfall (in mm)	7	9	10	11	13	15
No. of days	1	2	1	2	3	1

(i) $\frac{56}{5}$ mm (ii) $\frac{111}{10}$ mm (iii) $\frac{113}{10}$ mm (iv) $\frac{121}{10}$ mm (v) $\frac{131}{10}$ mm

8. Given the mean of 13 samples as $11\frac{11}{13}$, what is the mean if a sample value is increased by 16 ?

(i) $\frac{168}{13}$ (ii) $\frac{144}{11}$ (iii) $\frac{196}{15}$ (iv) $\frac{172}{13}$ (v) $\frac{170}{13}$

Heights of 30 plants are given below. Find the mean.

9.

Height (in cm)	50	56	57	71	80	82	86	94	97	98
No. of plants	4	4	5	1	2	2	2	5	3	2

(i) $\frac{2293}{30}$ cm (ii) $\frac{2263}{30}$ cm (iii) $\frac{2233}{30}$ cm (iv) $\frac{149}{2}$ cm (v) $\frac{1117}{15}$ cm

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

10. If the mean and median of the data are 42 and 28 respectively and $x_3 - x_1 = 70$, find x_1, x_2, x_3

(i) 28, 28, 168 (ii) 18, 28, 88 (iii) 14, 28, 84 (iv) 16, 28, 86

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11. Scores of 11 students are given below. Find the mean score.

78 89 72 82 78 80 82 85 88 75 90

(i) $\frac{900}{11}$ (ii) $\frac{910}{11}$ (iii) $\frac{901}{11}$ (iv) $\frac{921}{11}$ (v) $\frac{899}{11}$

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12. Find the mean of first 5 whole numbers.

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

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13. The scores obtained by 12 students in a test are given below. Find the mean score.

16 5 6 6 10 4 4 1 18 7 19 19

(i) 4 (ii) $9\frac{7}{12}$ (iii) 18 (iv) $6\frac{1}{2}$ (v) 1

Scores of 15 students are given below. Find the mean.

14.

Score	70	72	73	74	75	77	79	80	86	90
No. of students	1	3	1	1	3	1	2	1	1	1

(i) $\frac{383}{5}$ (ii) $\frac{393}{5}$ (iii) $\frac{388}{5}$ (iv) $\frac{384}{5}$ (v) 77

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15. The mean of the below random sample is $28\frac{4}{5}$. Find the missing quantity. 32 32 x 45 27 32 19 14 28 39

(i) 20 (ii) 21 (iii) 18 (iv) 19 (v) 23

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16. The marks obtained by 14 students in a test are given below. Find their median marks.

46 5 26 36 12 44 9 19 39 11 36 12 19 36

(i) $\frac{45}{2}$ (ii) $\frac{43}{2}$ (iii) $\frac{89}{4}$ (iv) 23 (v) $\frac{47}{2}$

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17. Given the mean of 10 samples as $4\frac{7}{10}$,

what is the new mean if two samples 3 and 7 are added ?

(i) $\frac{21}{4}$ (ii) $\frac{17}{4}$ (iii) $\frac{11}{2}$ (iv) $\frac{19}{4}$ (v) $\frac{9}{2}$

18. If the mean of 8 samples is $27\frac{1}{4}$,
what is the new mean if each number is multiplied by 8.

(i) 218 (ii) 215 (iii) 217 (iv) 221 (v) 219

19. 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 12,
find the observations of the data

(i) $9, 12, 18$ (ii) $12, 12, 20$ (iii) $8, 12, 16$ (iv) $16, 12, 32$

20. Rainfall of 30 days are given below. Find the median.

Rainfall (in mm)	5	6	8	9	10	11	12	13	14
No. of days	4	4	1	5	4	4	2	2	4

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

21. The marks obtained by 10 students in a test are given below. Find the mean of their marks when the marks of each student is increased by 8.

43 42 7 48 49 14 47 16 44 21

(i) $\frac{413}{10}$ (ii) $\frac{329}{8}$ (iii) $\frac{411}{10}$ (iv) $\frac{409}{10}$ (v) $\frac{493}{12}$

22. The marks obtained by 15 students in a test are given below. Find the mean of their marks when the marks of each student is decreased by 7.

47 25 21 27 42 6 21 5 36 7 11 20 30 2 43

(i) $\frac{238}{15}$ (ii) $\frac{236}{15}$ (iii) 16 (iv) $\frac{268}{17}$

23. Find the mean of all prime numbers between 40 and 80.

(i) $\frac{297}{5}$ (ii) $\frac{415}{7}$ (iii) $\frac{179}{3}$ (iv) $\frac{299}{5}$ (v) 59

24. Weights of 12 students (in kg) are given below. Find the mean weight.

53 56 41 47 41 49 49 51 47 51 41 52

(i) $\frac{97}{2}$ kg (ii) $\frac{145}{3}$ kg (iii) $\frac{289}{6}$ kg (iv) $\frac{301}{6}$ kg (v) $\frac{295}{6}$ kg

25. Weights of 30 students are given below. Find the median.

Weight (in kg)	43	44	46	51	52	53	55	56	58
No. of students	7	3	2	4	1	4	2	4	3

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

Assignment Key

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