EduSahara™ Assignment

Name : Mean of Grouped Data

Chapter : Statistics

Grade : CBSE Grade X

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1. Heights of 10 students are given below. Find the mean.

Height (in cm)	128	133	136	139	156	162	169
No. of students	1	2	1	1	1	2	2

(i) $\frac{1497}{10}$ cm (ii) $\frac{744}{5}$ cm (iii) $\frac{1487}{10}$ cm (iv) $\frac{1507}{10}$ cm (v) $\frac{1489}{10}$ cm

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

Height (in cm)	52	64	69	70	77	82	84	100
No. of plants	5	3	3	7	5	1	3	3

(i) $\frac{1114}{15}$ cm (ii) $\frac{1099}{15}$ cm (iii) $\frac{217}{3}$ cm (iv) $\frac{362}{5}$ cm (v) $\frac{1084}{15}$ cm

3. Ages of 10 students are given below. Find the mean.

Age (in years)	10	11	12	14	15
No. of students	5	1	1	2	1

(i) 12 years (ii) $\frac{68}{5}$ years (iii) $\frac{58}{5}$ years (iv) $\frac{63}{5}$ years (v) $\frac{59}{5}$ years

4. Scores of 20 students are given below. Find the mean.

Score	70	73	75	76	77	83	86	88	90
No. of students	5	1	1	2	2	3	1	3	2

(i) $\frac{1583}{20}$ (ii) $\frac{1623}{20}$ (iii) $\frac{396}{5}$ (iv) $\frac{317}{4}$ (v) $\frac{1603}{20}$

5. Rainfall of 15 days are given below. Find the mean.

Rainfall (in mm)	5	6	8	9	11	12	14	15
No. of days	1	1	2	1	4	3	1	2

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

6. Temperatures of 10 days are given below. Find the mean.

Temperature (in degree C)	25	28	31	33	34	35
No. of days	1	1	3	3	1	1

(i) $\frac{167}{5}$ °C (ii) $\frac{157}{5}$ °C (iii) $\frac{159}{5}$ °C (iv) $\frac{158}{5}$ °C (v) $\frac{162}{5}$ °C

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

Weight (in kg)	40	41	44	47	48	49	51	53	55
No. of students	2	1	1	1	1	1	1	1	1

(i) $\frac{244}{5}$ kg (ii) 47 kg (iii) $\frac{239}{5}$ kg (iv) $\frac{236}{5}$ kg (v) $\frac{234}{5}$ kg

8. Wages of 25 labourers are given below. Find the mean.

Wage (in rupees)	322	323	382	393	404	415	484	500
No. of labourers	2	4	3	1	2	3	5	5

(i) ₹419.92 (ii) ₹418.92 (iii) ₹418.00 (iv) ₹417.92 (v) ₹417.96

9. The following table shows the weights of 78 persons in a group. Find the mean weight.

Weight (in kg)	50 - 60	61 - 71	72 - 82	83 - 93	94 - 104	105 - 115
No. of persons	13	12	13	19	7	14

(i) $\frac{6413}{78}$ kg (ii) $\frac{1069}{13}$ kg (iii) $\frac{6569}{78}$ kg (iv) $\frac{6415}{78}$ kg (v) $\frac{6491}{78}$ kg

10. The following table shows the weights of 78 persons in a group. Find the mean weight.

Weight (in kg)	20 - 27	27 - 34	34 - 41	41 - 48	48 - 55
No. of persons	17	19	9	20	13

(i) $\frac{1439}{39}$ kg (ii) $\frac{1516}{39}$ kg (iii) $\frac{1477}{39}$ kg (iv) $\frac{480}{13}$ kg (v) $\frac{1438}{39}$ kg

11. The daily wages of 129 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	20 - 25	26 - 31	32 - 37	38 - 43	44 - 49	50 - 55	56 - 61
No. of workers	24	28	16	27	6	19	9

(i) ₹38.10 (ii) ₹37.13 (iii) ₹37.10 (iv) ₹37.12 (v) ₹39.10

12. The daily wages of 137 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	30 - 38	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78	78 - 86	86 - 94
No. of workers	30	22	13	8	16	27	5	16

(i) ₹60.12 (ii) ₹58.13 (iii) ₹58.12 (iv) ₹59.12

13. A frequency distribution table is given below. Find the mean .

Class-Interval	6 - 11	12 - 17	18 - 23	24 - 29	30 - 35	36 - 41
Frequency	21	49	40	33	6	24

(i) $\frac{7405}{346}$ (ii) $\frac{7407}{346}$ (iii) $\frac{7751}{346}$ (iv) $\frac{3703}{173}$ (v) $\frac{8097}{346}$

14. A frequency distribution table is given below. Find the mean .

Class-Interval	12 - 19	19 - 26	26 - 33	33 - 40	40 - 47	47 - 54	54 - 61	61 - 68
Frequency	33	1	5	37	19	6	11	20

(i) $\frac{1273}{33}$ (ii) $\frac{1271}{33}$ (iii) $\frac{1337}{33}$ (iv) $\frac{424}{11}$ (v) $\frac{1304}{33}$

15. The following frequency distribution table gives the monthly consumption of electricity of 100 consumers in a locality. Find the mean units.

Monthly consumption (in units)	52 - 72	72 - 92	92 - 112	112 - 132	132 - 152
No. of consumers	17	21	18	21	23

(i) $\frac{522}{5}$ units (ii) $\frac{523}{5}$ units (iii) $\frac{532}{5}$ units (iv) $\frac{527}{5}$ units (v) $\frac{524}{5}$ units

16. The following frequency distribution table gives the monthly consumption of electricity of 90 consumers in a locality. Find the median units.

Monthly consumption (in units)	51 - 71	71 - 91	91 - 111	111 - 131	131 - 151	151 - 171
No. of consumers	16	11	16	16	19	12

(i) $\frac{227}{2}$ units (ii) $\frac{229}{2}$ units (iii) $\frac{231}{2}$ units (iv) 114 units

17. If the mean of the following frequency distribution is $9\frac{29}{35}$,

find the value of 'x'.

Value	**Frequency**
4	3
5	3
6	1
7	2
8	2
9	3
10	4
11	3
12	5
13	6
14	x
15	1

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

18. The heights of 58 pupils in a school are given below. Calculate the mean height correct to 2 decimal places.

Height (in cm)	less than 134	less than 140	less than 146	less than 152	less than 158	less than 164	less than 170
No. of pupils	6	16	21	33	45	49	58

(i) 125.41 cm (ii) 149.41 cm (iii) 164.41 cm (iv) 137.41 cm (v) 177.41 cm

19. The daily wage of 41 workers of a factory is given below. Calculate the mean wage correct to 2 decimal places.

Daily income (in Rs)	less than 110	less than 120	less than 130	less than 140	less than 150	less than 160
No. of workers	8	13	19	27	36	41

(i) ₹155.88 (ii) ₹129.88 (iii) ₹105.88 (iv) ₹142.88 (v) ₹124.88

20. The marks obtained by 47 students of a class in an examination is given below. Calculate the mean mark correct to 2 decimal places.

Marks	less than 10	less than 15	less than 20	less than 25	less than 30	less than 35
No. of students	6	16	25	31	37	47

(i) 23.27 (ii) 25.27 (iii) 20.27 (iv) 17.27 (v) 15.27

21. The production yield in kg per hectare of wheat of 38 farms of a village is given below. Calculate the mean yield correct to 2 decimal places.

Production yield (in kg/ha)	less than 84	less than 93	less than 102	less than 111	less than 120
Number of farms	5	15	21	31	38

(i) 103.45 (ii) 95.45 (iii) 101.45 (iv) 98.45 (v) 93.45

Assignment Key

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