EduSahara™ Assignment

Name : Mean of Grouped Data

Chapter : Statistics

Grade : SSC Grade X

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1. The following table shows the weights of 69 persons in a group. Find the mean weight.

Weight (in kg)	50 - 55	56 - 61	62 - 67	68 - 73	74 - 79
No. of persons	16	12	5	16	20

(i) $\frac{1508}{23}$ kg (ii) $\frac{3017}{46}$ kg (iii) $\frac{3015}{46}$ kg (iv) $\frac{3061}{46}$ kg (v) $\frac{3107}{46}$ kg

2. The following table shows the weights of 54 persons in a group. Find the mean weight.

Weight (in kg)	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90
No. of persons	14	10	5	14	11

(i) $\frac{1882}{27}$ kg (ii) $\frac{1883}{27}$ kg (iii) $\frac{1936}{27}$ kg (iv) $\frac{628}{9}$ kg (v) $\frac{1909}{27}$ kg

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

Wage (in rupees)	20 - 28	29 - 37	38 - 46	47 - 55	56 - 64	65 - 73
No. of workers	12	17	29	29	15	27

(i) ₹48.93 (ii) ₹48.91 (iii) ₹50.91 (iv) ₹48.95 (v) ₹49.91

4. The daily wages of 135 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70
No. of workers	22	29	23	5	13	26	8	9

(i) ₹46.70 (ii) ₹46.69 (iii) ₹47.69 (iv) ₹46.72 (v) ₹48.69

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

Class-Interval	6 - 16	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
Frequency	41	36	37	31	17	21

(i) $\frac{6515}{183}$ (ii) $\frac{6149}{183}$ (iii) $\frac{6332}{183}$ (iv) $\frac{2050}{61}$ (v) $\frac{6151}{183}$

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

Class-Interval	18 - 26	26 - 34	34 - 42	42 - 50	50 - 58	58 - 66
Frequency	5	18	42	13	29	20

(i) $\frac{5777}{127}$ (ii) $\frac{5651}{127}$ (iii) $\frac{5650}{127}$ (iv) $\frac{5904}{127}$ (v) $\frac{5652}{127}$

7. The following frequency distribution table gives the monthly consumption of electricity of 103 consumers in a locality. Find the mean units.

Monthly consumption (in units)	47 - 67	67 - 87	87 - 107	107 - 127	127 - 147	147 - 167
No. of consumers	9	25	22	17	11	19

(i) $\frac{11257}{103}$ units (ii) $\frac{11052}{103}$ units (iii) $\frac{11154}{103}$ units (iv) $\frac{11051}{103}$ units (v) $\frac{11053}{103}$ units

8. If the sum of the following frequency distribution is 17, find the value of 'x'.

Class-Interval	Frequency
10 - 19	6
20 - 29	2
30 - 39	x
40 - 49	4
50 - 59	1

(i) 3 (ii) 5 (iii) 7 (iv) 2 (v) 4

9. If the mean of the following frequency distribution is $51\frac{5}{13}$, find the value of 'x'.

Class-Interval	Frequency
10 - 20	5
21 - 31	1
32 - 42	5
43 - 53	x
54 - 64	1
65 - 75	1
76 - 86	9

(i) 4 (ii) 5 (iii) 3 (iv) 7 (v) 2

10. The heights of 55 pupils in a school are given below. Calculate the mean height correct to 2 decimal places.

Height (in cm)	less than 137	less than 146	less than 155	less than 164	less than 173	less than 182
No. of pupils	10	19	28	32	44	55

(i) 142.74 cm (ii) 167.74 cm (iii) 141.74 cm (iv) 181.74 cm (v) 155.74 cm

11. The daily wage of 49 workers of a factory is given below. Calculate the mean wage correct to 2 decimal places.

Daily income (in Rs)	less than 220	less than 240	less than 260	less than 280	less than 300	less than 320
No. of workers	8	16	23	31	39	49

(i) ₹276.24 (ii) ₹262.24 (iii) ₹247.24 (iv) ₹280.24 (v) ₹255.24

12. The marks obtained by 52 students of a class in an examination is given below. Calculate the mean mark correct to 2 decimal places.

Marks	less than 15	less than 20	less than 25	less than 30	less than 35	less than 40	less than 45
No. of students	8	15	20	27	34	43	52

(i) 25.37 (ii) 23.37 (iii) 28.37 (iv) 31.37 (v) 33.37

13. The production yield in kg per hectare of wheat of 45 farms of a village is given below. Calculate the mean yield correct to 2 decimal places.

Production yield (in kg/ha)	less than 71	less than 77	less than 83	less than 89	less than 95	less than 101
Number of farms	8	13	23	31	36	45

(i) 88.20 (ii) 80.20 (iii) 78.20 (iv) 86.20 (v) 83.20

Assignment Key

1) (iii)	2) (i)	3) (ii)	4) (ii)	5) (ii)	6) (iii)
7) (iv)	8) (v)	9) (i)	10) (v)	11) (ii)	12) (iii)
13) (v)					

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