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 78 persons in a group. Find the mean weight.

Weight (in kg)	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87	88 - 95
No. of persons	9	19	7	9	17	7	10

(i) $\frac{5177}{78}$ kg (ii) $\frac{863}{13}$ kg (iii) $\frac{5179}{78}$ kg (iv) $\frac{5333}{78}$ kg (v) $\frac{5255}{78}$ kg

2. The following table shows the weights of 87 persons in a group. Find the mean weight.

Weight (in kg)	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100
No. of persons	6	7	17	9	13	17	7	11

(i) $\frac{1834}{29}$ kg (ii) $\frac{1863}{29}$ kg (iii) $\frac{1806}{29}$ kg (iv) $\frac{1805}{29}$ kg (v) $\frac{1807}{29}$ kg

3. The daily wages of 102 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67	68 - 75
No. of workers	8	22	28	11	15	13	5

(i) ₹46.36 (ii) ₹44.38 (iii) ₹44.37 (iv) ₹44.36 (v) ₹45.36

4. The daily wages of 155 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	20 - 26	26 - 32	32 - 38	38 - 44	44 - 50	50 - 56	56 - 62	62 - 68
No. of workers	26	28	5	30	22	17	9	18

(i) ₹41.63 (ii) ₹42.62 (iii) ₹43.62 (iv) ₹41.62

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

Class-Interval	13 - 23	24 - 34	35 - 45	46 - 56	57 - 67	68 - 78
Frequency	28	8	41	26	34	24

(i) $\frac{7884}{161}$ (ii) $\frac{7562}{161}$ (iii) $\frac{7563}{161}$ (iv) $\frac{7564}{161}$ (v) $\frac{7723}{161}$

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

Class-Interval	18 - 25	25 - 32	32 - 39	39 - 46	46 - 53
Frequency	15	44	48	44	37

(i) $\frac{3491}{94}$ (ii) $\frac{3679}{94}$ (iii) $\frac{1746}{47}$ (iv) $\frac{3585}{94}$ (v) $\frac{3493}{94}$

7. The following frequency distribution table gives the monthly consumption of electricity of 81 consumers in a locality. Find the mean units.

Monthly consumption (in units)	42 - 52	52 - 62	62 - 72	72 - 82	82 - 92
No. of consumers	15	21	16	17	12

(i) $\frac{5327}{81}$ units (ii) $\frac{5408}{81}$ units (iii) $\frac{592}{9}$ units (iv) $\frac{5329}{81}$ units (v) $\frac{5489}{81}$ units

8. If the sum of the following frequency distribution is 33, find the value of 'x'.

Class-Interval	Frequency
10 - 17	6
18 - 25	6
26 - 33	6
34 - 41	x
42 - 49	4
50 - 57	3

(i) 9 (ii) 6 (iii) 7 (iv) 11 (v) 8

9. If the mean of the following frequency distribution is $40\frac{37}{54}$, find the value of 'x'.

Class-Interval	Frequency
20 - 27	2
28 - 35	10
36 - 43	2
44 - 51	x
52 - 59	5

(i) 10 (ii) 6 (iii) 8 (iv) 7 (v) 9

10. The heights of 43 pupils in a school are given below. Calculate the mean height correct to 2 decimal places.

Height (in cm)	less than 129	less than 138	less than 147	less than 156	less than 165	less than 174	less than 183
No. of pupils	5	15	21	28	32	36	43

(i) 149.83 cm (ii) 134.83 cm (iii) 161.83 cm (iv) 152.83 cm (v) 141.83 cm

11. The daily wage of 40 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
No. of workers	10	16	21	31	40

(i) ₹251.00 (ii) ₹257.00 (iii) ₹248.00 (iv) ₹226.00 (v) ₹277.00

12. The marks obtained by 36 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
No. of students	9	19	24	30	36

(i) 11.11 (ii) 13.11 (iii) 21.11 (iv) 16.11 (v) 19.11

13. The production yield in kg per hectare of wheat of 44 farms of a village is given below. Calculate the mean yield correct to 2 decimal places.

Production yield (in kg/ha)	less than 77	less than 84	less than 91	less than 98	less than 105	less than 112
Number of farms	8	17	25	30	38	44

(i) 92.73 (ii) 86.73 (iii) 89.73 (iv) 84.73 (v) 94.73

Assignment Key

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

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