EduSahara™ Assignment

Name : Mean of Grouped Data

Chapter : Statistics

Grade : SSC Grade X

1. The following table shows the weights of 101 persons in a group. Find the mean weight.

Weight (in kg)	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67	68 - 75	76 - 83
No. of persons	7	18	11	7	17	17	5	19

(i) $\frac{10981}{202}$ kg (ii) $\frac{5390}{101}$ kg (iii) $\frac{10779}{202}$ kg (iv) $\frac{10781}{202}$ kg (v) $\frac{11183}{202}$ kg

2. The following table shows the weights of 52 persons in a group. Find the mean weight.

Weight (in kg)	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of persons	8	14	11	9	10

(i) $\frac{1685}{26}$ kg (ii) $\frac{1711}{26}$ kg (iii) $\frac{1737}{26}$ kg (iv) $\frac{1687}{26}$ kg (v) $\frac{843}{13}$ kg

3. The daily wages of 152 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	30 - 40	41 - 51	52 - 62	63 - 73	74 - 84	85 - 95	96 - 106	107 - 117
No. of workers	18	23	16	24	15	13	15	28

(i) ₹73.95 (ii) ₹73.93 (iii) ₹74.93 (iv) ₹73.96 (v) ₹75.93

4. The daily wages of 156 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	20 - 27	27 - 34	34 - 41	41 - 48	48 - 55	55 - 62	62 - 69
No. of workers	23	30	30	17	20	16	20

(i) ₹44.39 (ii) ₹42.40 (iii) ₹43.39 (iv) ₹42.39

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

Class-Interval	11 - 19	20 - 28	29 - 37	38 - 46	47 - 55	56 - 64	65 - 73	74 - 82
Frequency	26	14	48	50	48	14	7	21

(i) $\frac{3425}{76}$ (ii) $\frac{3349}{76}$ (iii) $\frac{3273}{76}$ (iv) $\frac{3275}{76}$ (v) $\frac{1637}{38}$

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

Class-Interval	4 - 12	12 - 20	20 - 28	28 - 36	36 - 44	44 - 52	52 - 60	60 - 68
Frequency	36	26	32	48	22	48	35	3

(i) $\frac{4173}{125}$ (ii) $\frac{4422}{125}$ (iii) $\frac{4297}{125}$ (iv) $\frac{4172}{125}$ (v) $\frac{4174}{125}$

7. The following frequency distribution table gives the monthly consumption of electricity of 99 consumers in a locality. Find the mean units.

Monthly consumption (in units)	65 - 75	75 - 85	85 - 95	95 - 105	105 - 115	115 - 125
No. of consumers	25	17	18	15	12	12

(i) $\frac{8992}{99}$ units (ii) $\frac{9188}{99}$ units (iii) $\frac{9089}{99}$ units (iv) $\frac{8990}{99}$ units (v) $\frac{999}{11}$ units

8. If the sum of the following frequency distribution is 38 , find the value of 'x'.

Class-Interval	Frequency
10 - 16	10
17 - 23	7
24 - 30	10
31 - 37	6
38 - 44	x

(i) 7 (ii) 6 (iii) 4 (iv) 3 (v) 5

9. If the mean of the following frequency distribution is $28\frac{25}{31}$, find the value of 'x'.

Class-Interval	Frequency
10 - 18	8
19 - 27	10
28 - 36	4
37 - 45	x
46 - 54	6

(i) 1 (ii) 3 (iii) 5 (iv) 2 (v) 4

10. The heights of 52 pupils in a school are given below. Calculate the mean height correct to 2 decimal places.

Height (in cm)	less than 139	less than 148	less than 157	less than 166	less than 175	less than 184	less than 193
No. of pupils	7	10	20	32	43	49	52

(i) 173.63 cm (ii) 153.63 cm (iii) 134.63 cm (iv) 162.63 cm (v) 160.63 cm

11. The daily wage of 43 workers of a factory is given below. Calculate the mean wage correct to 2 decimal places.

Daily income (in Rs)	less than 210	less than 220	less than 230	less than 240	less than 250
No. of workers	9	18	28	34	43

(i) ₹246.30 (ii) ₹222.30 (iii) ₹227.30 (iv) ₹224.30 (v) ₹209.30

12. The marks obtained by 51 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	less than 40
No. of students	7	13	23	32	40	46	51

(i) 18.72 (ii) 26.72 (iii) 16.72 (iv) 21.72 (v) 24.72

13. The production yield in kg per hectare of wheat of 43 farms of a village is given below. Calculate the mean yield correct to 2 decimal places.

Production yield (in kg/ha)	less than 70	less than 75	less than 80	less than 85	less than 90	less than 95
Number of farms	6	13	21	27	34	43

(i) 83.76 (ii) 80.76 (iii) 75.76 (iv) 85.76 (v) 77.76

Assignment Key

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