EduSahara™ Learning Center Assignment

Grade : Class X, SSC
Chapter : Statistics
Name : Mean of Grouped Data

The following table shows the weights of 93 persons in a group.

Find the mean weight.

1.

Weight (in kg)	30 - 37	38 - 45	46 - 53	54 - 61	62 - 69	70 - 77	78 - 85
No. of persons	10	16	20	11	6	10	20

(i) $\dfrac{3587}{62}$ kg (ii) $\dfrac{10759}{186}$ kg (iii) $\dfrac{5380}{93}$ kg (iv) $\dfrac{11131}{186}$ kg (v) $\dfrac{10945}{186}$ kg

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The following table shows the weights of 67 persons in a group.

Find the mean weight.

2.

Weight (in kg)	10 - 17	17 - 24	24 - 31	31 - 38	38 - 45	45 - 52
No. of persons	16	6	13	8	14	10

(i) $\dfrac{2039}{67}$ kg (ii) $\dfrac{4345}{134}$ kg (iii) $\dfrac{4211}{134}$ kg (iv) $\dfrac{4077}{134}$ kg (v) $\dfrac{4079}{134}$ kg

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The daily wages of 170 workers in a factory are given below.

Find the mean wage.

3.

Wage (in rupees)	20 - 28	29 - 37	38 - 46	47 - 55	56 - 64	65 - 73	74 - 82	83 - 91
No. of workers	9	29	17	21	30	16	24	24

(i) ₹ 57.80 (ii) ₹ 57.78 (iii) ₹ 58.78 (iv) ₹ 59.78 (v) ₹ 57.79

The daily wages of 121 workers in a factory are given below.

Find the mean wage.

4.

Wage (in rupees)	30 - 37	37 - 44	44 - 51	51 - 58	58 - 65	65 - 72	72 - 79
No. of workers	26	10	18	9	20	13	25

(i) ₹ 55.79 (ii) ₹ 56.79 (iii) ₹ 54.80 (iv) ₹ 54.79

A frequency distribution table is given below.

Find the mean .

5.

Class-Interval	2 - 8	9 - 15	16 - 22	23 - 29	30 - 36	37 - 43	44 - 50
Frequency	34	46	17	14	6	16	30

(i) $\dfrac{3657}{163}$ (ii) $\dfrac{3983}{163}$ (iii) $\dfrac{3659}{163}$ (iv) $\dfrac{3820}{163}$ (v) $\dfrac{3658}{163}$

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6. A frequency distribution table is given below.

Find the mean .

Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79
Frequency	2	7	30	36	31	37	11

(i) $\dfrac{751}{14}$　(ii) $\dfrac{737}{14}$　(iii) $\dfrac{739}{14}$　(iv) $\dfrac{765}{14}$　(v) $\dfrac{369}{7}$

The following frequency distribution table gives

the monthly consumption of electricity of 122 consumers in a locality.

7. Find the mean units.

Monthly consumption (in units)	51 - 71	71 - 91	91 - 111	111 - 131	131 - 151	151 - 171	171 - 191
No. of consumers	21	19	20	21	5	25	11

(i) $\dfrac{7112}{61}$ units　(ii) $\dfrac{7173}{61}$ units　(iii) $\dfrac{7052}{61}$ units　(iv) $\dfrac{7053}{61}$ units　(v) $\dfrac{7051}{61}$ units

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If the sum of the following frequency distribution is 47 ,

find the value of 'x'.

8.

Class-Interval	Frequency
10 - 16	10
17 - 23	2
24 - 30	8
31 - 37	5
38 - 44	x
45 - 51	9
52 - 58	6

(i) 8　(ii) 4　(iii) 7　(iv) 6　(v) 10

If the mean of the following frequency distribution is $41\dfrac{21}{53}$,

find the value of 'x'.

9.

Class-Interval	Frequency
10 - 16	1
17 - 23	6
24 - 30	10
31 - 37	x
38 - 44	8
45 - 51	3
52 - 58	9
59 - 65	10

(i) 8　(ii) 6　(iii) 7　(iv) 5　(v) 3

The heights of 41 pupils in a school are given below. Calculate the mean height correct to 2 decimal places.

10.

Height (in cm)	less than 126	less than 131	less than 136	less than 141	less than 146	less than 151
No. of pupils	4	11	14	24	31	41

(i) 140.26 cm (ii) 163.26 cm (iii) 138.26 cm (iv) 116.26 cm (v) 135.26 cm

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The daily wage of 38 workers of a factory is given below. Calculate the mean wage correct to 2 decimal places.

11.

Daily income (in Rs)	less than 110	less than 120	less than 130	less than 140	less than 150
No. of workers	10	17	26	31	38

(i) ₹95.89 (ii) ₹122.89 (iii) ₹137.89 (iv) ₹120.89 (v) ₹126.89

The marks obtained by 40 students of a class in an examination is given below. Calculate the mean mark correct to 2 decimal places.

12.

Marks	less than 15	less than 20	less than 25	less than 30	less than 35	less than 40
No. of students	6	16	21	28	35	40

(i) 29.25 (ii) 19.25 (iii) 21.25 (iv) 24.25 (v) 27.25

The production yield in kg per hectare of wheat of 55 farms of a village is given below. Calculate the mean yield correct to 2 decimal places.

13.

Production yield (in kg/ha)	less than 55	less than 60	less than 65	less than 70	less than 75	less than 80	less than 85
Number of farms	9	18	23	33	40	47	55

(i) 64.05 (ii) 72.05 (iii) 70.05 (iv) 62.05 (v) 67.05

Assignment Key

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