EduSahara™ Assignment

Name : Mean of Grouped Data

Chapter : Statistics

Grade : CBSE Grade X

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

Height (in cm)	131	144	149	156	168	173
No. of students	1	3	1	1	3	1

(i) 155 cm (ii) $\frac{311}{2}$ cm (iii) $\frac{309}{2}$ cm (iv) $\frac{313}{2}$ cm

2. Heights of 10 plants are given below. Find the mean.

Height (in cm)	53	56	67	89	92	97	99
No. of plants	3	1	1	1	2	1	1

(i) $\frac{751}{10}$ cm (ii) $\frac{771}{10}$ cm (iii) $\frac{761}{10}$ cm (iv) $\frac{753}{10}$ cm (v) $\frac{376}{5}$ cm

3. Ages of 20 students are given below. Find the mean.

Age (in years)	10	11	12	13	14	15
No. of students	1	5	5	4	3	2

(i) $\frac{249}{20}$ years (ii) $\frac{269}{20}$ years (iii) $\frac{251}{20}$ years (iv) $\frac{289}{20}$ years (v) $\frac{25}{2}$ years

4. Scores of 15 students are given below. Find the mean.

Score	72	73	74	80	81	82	84	87	90
No. of students	1	1	1	2	3	1	2	2	2

(i) $\frac{1241}{15}$ (ii) $\frac{409}{5}$ (iii) $\frac{1228}{15}$ (iv) $\frac{1226}{15}$ (v) $\frac{1256}{15}$

5. Rainfall of 20 days are given below. Find the mean.

Rainfall (in mm)	5	6	7	8	10	12	13	14	15
No. of days	4	1	5	1	1	2	1	3	2

(i) $\frac{49}{5}$ mm (ii) $\frac{52}{5}$ mm (iii) $\frac{57}{5}$ mm (iv) $\frac{48}{5}$ mm (v) $\frac{47}{5}$ mm

6. Temperatures of 25 days are given below. Find the mean.

Temperature (in degree C)	25	26	28	29	30	31	33	35
No. of days	1	1	3	2	3	8	5	2

(i) $\frac{766}{25}$ °C (ii) $\frac{768}{25}$ °C (iii) $\frac{767}{25}$ °C (iv) $\frac{791}{25}$ °C (v) $\frac{816}{25}$ °C

7. Weights of 30 students are given below. Find the mean.

Weight (in kg)	40	41	42	47	48	51	56	59	60
No. of students	2	2	3	4	4	2	5	4	4

(i) 51 kg (ii) $\frac{793}{15}$ kg (iii) $\frac{764}{15}$ kg (iv) $\frac{763}{15}$ kg (v) $\frac{778}{15}$ kg

8. Wages of 15 labourers are given below. Find the mean.

Wage (in rupees)	335	379	421	433	434	442	482
No. of labourers	3	2	1	1	6	1	1

(i) ₹409.67 (ii) ₹410.33 (iii) ₹411.67 (iv) ₹410.00 (v) ₹410.67

9. The following table shows the weights of 100 persons in a group. Find the mean weight.

Weight (in kg)	10 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51	52 - 57
No. of persons	17	17	9	14	18	6	9	10

(i) $\frac{768}{25}$ kg (ii) $\frac{817}{25}$ kg (iii) $\frac{792}{25}$ kg (iv) $\frac{767}{25}$ kg (v) $\frac{769}{25}$ kg

10. The following table shows the weights of 61 persons in a group. Find the mean weight.

Weight (in kg)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of persons	12	11	18	12	8

(i) $\frac{2065}{61}$ kg (ii) $\frac{2066}{61}$ kg (iii) $\frac{2126}{61}$ kg (iv) $\frac{2067}{61}$ kg (v) $\frac{2187}{61}$ kg

11. The daily wages of 148 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	30 - 38	39 - 47	48 - 56	57 - 65	66 - 74	75 - 83	84 - 92	93 - 101
No. of workers	26	12	14	16	16	10	28	26

(i) ₹68.57 (ii) ₹69.57 (iii) ₹67.62 (iv) ₹67.59 (v) ₹67.57

12. The daily wages of 119 workers in a factory are given below. Find the mean wage.

Wage (in rupees)	20 - 28	28 - 36	36 - 44	44 - 52	52 - 60	60 - 68
No. of workers	17	16	11	23	23	29

(i) ₹47.13 (ii) ₹49.13 (iii) ₹47.14 (iv) ₹48.13

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

Class-Interval	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47	48 - 53	54 - 59	60 - 65
Frequency	8	44	45	1	12	27	28	23

(i) $\frac{1937}{47}$ (ii) $\frac{1939}{47}$ (iii) $\frac{1938}{47}$ (iv) $\frac{1984}{47}$ (v) $\frac{2031}{47}$

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

Class-Interval	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80
Frequency	13	13	20	44	25	31

(i) $\frac{4026}{73}$ (ii) $\frac{4171}{73}$ (iii) $\frac{4098}{73}$ (iv) $\frac{4027}{73}$ (v) $\frac{4025}{73}$

15. The following frequency distribution table gives the monthly consumption of electricity of 91 consumers in a locality. Find the mean units.

Monthly consumption (in units)	58 - 78	78 - 98	98 - 118	118 - 138	138 - 158	158 - 178
No. of consumers	10	16	20	25	6	14

(i) $\frac{10779}{91}$ units (ii) $\frac{1527}{13}$ units (iii) $\frac{10688}{91}$ units (iv) $\frac{10690}{91}$ units (v) $\frac{10870}{91}$ units

16. The following frequency distribution table gives the monthly consumption of electricity of 93 consumers in a locality. Find the median units.

Monthly consumption (in units)	80 - 90	90 - 100	100 - 110	110 - 120	120 - 130	130 - 140	140 - 150
No. of consumers	17	5	6	25	14	20	6

(i) $\frac{588}{5}$ units (ii) $\frac{589}{5}$ units (iii) $\frac{587}{5}$ units (iv) $\frac{592}{5}$ units (v) $\frac{597}{5}$ units

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

Value	**Frequency**
5	3
6	4
7	3
8	2
9	2
10	3
11	x

(i) 4 (ii) 6 (iii) 5 (iv) 2 (v) 3

18. The heights of 38 pupils in a school are given below. Calculate the mean height correct to 2 decimal places.

Height (in cm)	less than 127	less than 133	less than 139	less than 145	less than 151	less than 157
No. of pupils	5	8	16	24	27	38

(i) 141.37 cm (ii) 135.37 cm (iii) 158.37 cm (iv) 123.37 cm (v) 155.37 cm

19. 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	less than 320
No. of workers	7	13	21	27	32	40

(i) ₹272.00 (ii) ₹275.00 (iii) ₹243.00 (iv) ₹260.00 (v) ₹246.00

20. The marks obtained by 49 students of a class in an examination is given below. Calculate the mean mark correct to 2 decimal places.

Marks	less than 20	less than 25	less than 30	less than 35	less than 40	less than 45
No. of students	10	18	25	31	39	49

(i) 34.95 (ii) 26.95 (iii) 24.95 (iv) 32.95 (v) 29.95

21. The production yield in kg per hectare of wheat of 59 farms of a village is given below. Calculate the mean yield correct to 2 decimal places.

Production yield (in kg/ha)	less than 56	less than 62	less than 68	less than 74	less than 80	less than 86	less than 92
Number of farms	10	17	26	34	44	52	59

(i) 75.39 (ii) 70.39 (iii) 65.39 (iv) 67.39 (v) 73.39

Assignment Key

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