EduSahara™ Learning Center Assignment

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

Heights of 20 students are given below. Find the mean.

1.

Height (in cm)	129	130	134	153	158	159	162	167	174
No. of students	3	2	3	2	1	4	1	1	3

(i) 152 cm (ii) 149 cm (iii) 150 cm (iv) 148 cm (v) 151 cm

Heights of 30 plants are given below. Find the mean.

2.

Height (in cm)	54	56	58	62	63	67	74	91	92	99
No. of plants	6	3	2	4	1	6	3	3	1	1

(i) 67 cm (ii) $\frac{671}{10}$ cm (iii) $\frac{679}{10}$ cm (iv) $\frac{669}{10}$ cm (v) $\frac{689}{10}$ cm

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Ages of 10 students are given below. Find the mean.

3.

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

(i) $\frac{64}{5}$ years (ii) $\frac{59}{5}$ years (iii) $\frac{69}{5}$ years (iv) $\frac{61}{5}$ years (v) 12 years

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Scores of 20 students are given below. Find the mean.

4.

Score	71	73	76	79	86	88	89
No. of students	2	3	3	4	2	3	3

(i) $\frac{407}{5}$ (ii) $\frac{402}{5}$ (iii) $\frac{412}{5}$ (iv) $\frac{403}{5}$ (v) $\frac{404}{5}$

Rainfall of 10 days are given below. Find the mean.

5.

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

(i) $\frac{93}{10}$ mm (ii) $\frac{103}{10}$ mm (iii) $\frac{113}{10}$ mm (iv) $\frac{19}{2}$ mm (v) $\frac{47}{5}$ mm

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Temperatures of 20 days are given below. Find the mean.

6.

Temperature (in degree C)	25	26	27	28	29	30	32	33	34
No. of days	3	2	2	3	1	2	4	2	1

(i) $\frac{291}{10}$ °C (ii) $\frac{301}{10}$ °C (iii) $\frac{311}{10}$ °C (iv) $\frac{146}{5}$ °C (v) $\frac{293}{10}$ °C

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

Weight (in kg)	40	44	46	49	52	53	54	55	57	59
No. of students	3	2	4	3	2	4	1	3	3	5

(i) $\frac{160}{3}$ kg (ii) $\frac{154}{3}$ kg (iii) $\frac{155}{3}$ kg (iv) 52 kg (v) $\frac{157}{3}$ kg

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Wages of 30 labourers are given below. Find the mean.

8.

Wage (in rupees)	319	320	325	327	350	361	380	400	431	464	465	498
No. of labourers	3	1	2	5	2	1	4	2	1	5	2	2

(i) ₹ 388.00 (ii) ₹ 389.33 (iii) ₹ 388.33 (iv) ₹ 387.67 (v) ₹ 387.33

The following table shows the weights of 62 persons in a group.

Find the mean weight.

9.

Weight (in kg)	50 - 57	58 - 65	66 - 73	74 - 81	82 - 89
No. of persons	13	14	12	18	5

(i) $\frac{4337}{62}$ kg (ii) $\frac{4275}{62}$ kg (iii) $\frac{4213}{62}$ kg (iv) $\frac{2107}{31}$ kg (v) $\frac{4215}{62}$ kg

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The following table shows the weights of 74 persons in a group.

Find the mean weight.

10.

Weight (in kg)	10 - 18	18 - 26	26 - 34	34 - 42	42 - 50
No. of persons	18	18	19	13	6

(i) $\frac{1031}{37}$ kg (ii) $\frac{995}{37}$ kg (iii) $\frac{1068}{37}$ kg (iv) $\frac{994}{37}$ kg (v) $\frac{996}{37}$ kg

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The daily wages of 90 workers in a factory are given below.

Find the mean wage.

11.

Wage (in rupees)	30 - 38	39 - 47	48 - 56	57 - 65	66 - 74
No. of workers	19	8	30	12	21

(i) ₹ 54.80 (ii) ₹ 53.00 (iii) ₹ 52.80 (iv) ₹ 53.80 (v) ₹ 53.20

The daily wages of 145 workers in a factory are given below.

Find the mean wage.

12.

Wage (in rupees)	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110
No. of workers	12	29	30	29	10	14	7	14

(i) ₹ 64.38 (ii) ₹ 64.41 (iii) ₹ 65.38 (iv) ₹ 64.45 (v) ₹ 66.38

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13. A frequency distribution table is given below.

Find the mean .

Class-Interval	9 - 16	17 - 24	25 - 32	33 - 40	41 - 48
Frequency	30	38	39	47	30

(i) $\frac{1329}{46}$ (ii) $\frac{1331}{46}$ (iii) $\frac{665}{23}$ (iv) $\frac{1375}{46}$ (v) $\frac{1421}{46}$

A frequency distribution table is given below.

Find the mean .

14.

Class-Interval	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39
Frequency	8	8	44	48	5

(i) $\frac{6329}{226}$ (ii) $\frac{6331}{226}$ (iii) $\frac{6781}{226}$ (iv) $\frac{6555}{226}$ (v) $\frac{3165}{113}$

The following frequency distribution table gives

the monthly consumption of electricity of 84 consumers in a locality.

15. Find the mean units.

Monthly consumption (in units)	69 - 89	89 - 109	109 - 129	129 - 149	149 - 169	169 - 189	189 - 209
No. of consumers	16	8	23	15	5	7	10

(i) $\frac{2731}{21}$ units (ii) $\frac{2750}{21}$ units (iii) $\frac{2771}{21}$ units (iv) 130 units (v) $\frac{2729}{21}$ units

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The following frequency distribution table gives

the monthly consumption of electricity of 99 consumers in a locality.

16. Find the median units.

Monthly consumption (in units)	51 - 61	61 - 71	71 - 81	81 - 91	91 - 101	101 - 111
No. of consumers	13	21	23	14	5	23

(i) $\frac{1788}{23}$ units (ii) $\frac{1834}{23}$ units (iii) $\frac{1789}{23}$ units (iv) $\frac{1811}{23}$ units (v) $\frac{1790}{23}$ units

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If the mean of the following frequency distribution is $7\frac{8}{11}$,

find the value of 'x'.

17.

Value	**Frequency**
2	1
3	1
4	4
5	3
6	5
7	3
8	2
9	2
10	2
11	7
12	2
13	x

(i) 1 (ii) 0 (iii) 4 (iv) -1 (v) 2

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 137	less than 145	less than 153	less than 161	less than 169
No. of pupils	10	13	24	31	38

(i) 130.58 cm (ii) 156.58 cm (iii) 172.58 cm (iv) 125.58 cm (v) 148.58 cm

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19. The daily wage of 51 workers of a factory is given below. Calculate the mean wage correct to 2 decimal places.

Daily income (in Rs)	less than 120	less than 140	less than 160	less than 180	less than 200	less than 220	less than 240
No. of workers	7	16	21	31	36	45	51

(i) ₹144.82 (ii) ₹186.82 (iii) ₹185.82 (iv) ₹150.82 (v) ₹168.82

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20. The marks obtained by 33 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 25	less than 35	less than 45	less than 55
No. of students	5	14	21	26	33

(i) 25.00 (ii) 27.00 (iii) 33.00 (iv) 30.00 (v) 35.00

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21. 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 80	less than 90	less than 100	less than 110	less than 120
Number of farms	10	19	29	36	45

(i) 97.11 (ii) 94.11 (iii) 91.11 (iv) 89.11 (v) 99.11

Assignment Key

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