

EduSahara™ Learning Center Assignment

Grade : Class X, ICSE

Chapter : Measures of Central Tendency

Name : Mean of Grouped Data

Heights of 15 students are given below. Find the mean.

1.	Height (in cm)	128	143	153	154	157	166	168	171
	No. of students	4	1	2	2	1	1	2	2

- (i) $\frac{457}{3}$ cm (ii) $\frac{460}{3}$ cm (iii) $\frac{454}{3}$ cm (iv) 152 cm (v) $\frac{455}{3}$ cm

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

2.	Height (in cm)	50	51	59	74	77	80	94	98	99
	No. of plants	1	1	4	2	1	4	2	3	2

- (i) $\frac{791}{10}$ cm (ii) $\frac{391}{5}$ cm (iii) $\frac{781}{10}$ cm (iv) $\frac{801}{10}$ cm (v) $\frac{783}{10}$ cm

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

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

- (i) $\frac{129}{10}$ years (ii) $\frac{127}{10}$ years (iii) $\frac{137}{10}$ years (iv) $\frac{64}{5}$ years (v) $\frac{147}{10}$ years

Scores of 30 students are given below. Find the mean.

4.	Score	71	78	79	81	82	83	85	87
	No. of students	4	2	5	5	2	3	4	5

- (i) $\frac{1216}{15}$ (ii) 81 (iii) $\frac{1229}{15}$ (iv) $\frac{1244}{15}$ (v) $\frac{1214}{15}$

Rainfall of 15 days are given below. Find the mean.

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

- (i) 11 mm (ii) 8 mm (iii) 10 mm (iv) 7 mm (v) 9 mm

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

6.	Temperature (in degree C)	26	28	29	31	33	34
	No. of days	5	1	1	1	1	1

- (i) $\frac{61}{2}$ °C (ii) $\frac{59}{2}$ °C (iii) $\frac{57}{2}$ °C (iv) 29 °C

7. Weights of 20 students are given below. Find the mean.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Weight (in kg)	43	46	52	54	56	58	60
No. of students	3	2	2	3	6	1	3

- (i) $\frac{1063}{20}$ kg (ii) $\frac{1081}{20}$ kg (iii) $\frac{531}{10}$ kg (iv) $\frac{1101}{20}$ kg (v) $\frac{1061}{20}$ kg

Wages of 10 labourers are given below. Find the mean.

8.

Wage (in rupees)	302	310	356	364	391	425	453
No. of labourers	1	1	1	1	1	3	2

- (i) ₹ 390.40 (ii) ₹ 390.60 (iii) ₹ 390.80 (iv) ₹ 391.40 (v) ₹ 392.40

The following table shows the weights of 83 persons in a group.

Find the mean weight.

9.

Weight (in kg)	40 - 46	47 - 53	54 - 60	61 - 67	68 - 74
No. of persons	8	17	20	20	18

- (i) $\frac{4894}{83}$ kg (ii) $\frac{4975}{83}$ kg (iii) $\frac{4893}{83}$ kg (iv) $\frac{5058}{83}$ kg (v) $\frac{4892}{83}$ kg

The following table shows the weights of 84 persons in a group.

Find the mean weight.

10.

Weight (in kg)	30 - 38	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78	78 - 86
No. of persons	5	7	8	20	17	19	8

- (i) 62 kg (ii) 64 kg (iii) 60 kg (iv) 63 kg (v) 61 kg

The daily wages of 119 workers in a factory are given below.

Find the mean wage.

11.

Wage (in rupees)	30 - 35	36 - 41	42 - 47	48 - 53	54 - 59	60 - 65	66 - 71
No. of workers	13	5	14	24	29	13	21

- (i) ₹ 53.27 (ii) ₹ 54.27 (iii) ₹ 55.27 (iv) ₹ 53.28

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

Find the mean wage.

12.

Wage (in rupees)	30 - 37	37 - 44	44 - 51	51 - 58	58 - 65	65 - 72	72 - 79	79 - 86
No. of workers	24	20	24	19	12	28	14	29

- (i) ₹ 58.24 (ii) ₹ 58.26 (iii) ₹ 60.21 (iv) ₹ 59.21 (v) ₹ 58.21

A frequency distribution table is given below.

Find the mean .

13.

Class-Interval	8 - 13	14 - 19	20 - 25	26 - 31	32 - 37	38 - 43	44 - 49
Frequency	49	11	17	38	21	29	4

- (i) $\frac{8493}{338}$ (ii) $\frac{4247}{169}$ (iii) $\frac{8495}{338}$ (iv) $\frac{8831}{338}$ (v) $\frac{9169}{338}$

A frequency distribution table is given below.

Find the mean .

14.

Class-Interval	17 - 22	22 - 27	27 - 32	32 - 37	37 - 42	42 - 47	47 - 52
Frequency	5	35	36	32	49	29	14

- (i) $\frac{181}{5}$ (ii) $\frac{176}{5}$ (iii) $\frac{178}{5}$ (iv) $\frac{186}{5}$ (v) $\frac{177}{5}$

The following frequency distribution table gives

the monthly consumption of electricity of 66 consumers in a locality.

15. Find the mean units.

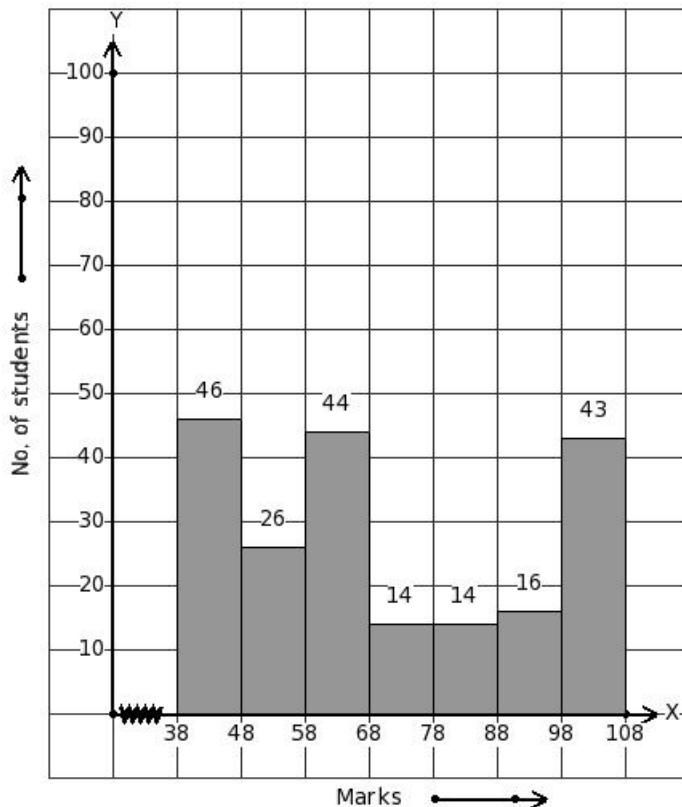
Monthly consumption (in units)	41 - 61	61 - 81	81 - 101	101 - 121	121 - 141
No. of consumers	21	17	8	10	10

- (i) $\frac{2779}{33}$ units (ii) $\frac{2746}{33}$ units (iii) $\frac{2713}{33}$ units (iv) $\frac{2714}{33}$ units (v) $\frac{905}{11}$ units

The histogram given below represents the marks obtained by some candidates in an examination.

16.

Using data in the diagram, calculate the mean marks.



- (i) 71.09 (ii) 69.09 (iii) 72.09 (iv) 70.09 (v) 68.09

Assignment Key

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