

EduSahara™ Learning Center Assignment

Grade : Class X, CBSE

Chapter : Statistics

Name : Median of Grouped Data

Heights of 30 students are given below. Find the median.

1.	Height (in cm)	143	144	150	158	162	164	175
	No. of students	6	7	2	2	1	5	7

(i) 153 cm (ii) 156 cm (iii) 154 cm (iv) 155 cm (v) 152 cm

Heights of 25 plants are given below. Find the median.

2.	Height (in cm)	55	65	67	69	71	78	79	80	86	90	99
	No. of plants	3	2	4	4	1	1	1	2	4	1	2

(i) 69 cm (ii) 71 cm (iii) 70 cm (iv) 67 cm (v) 68 cm

Ages of 30 students are given below. Find the median.

3.	Age (in years)	11	12	13	14	15
	No. of students	4	10	5	5	6

(i) 14 years (ii) 13 years (iii) 15 years (iv) 12 years (v) 11 years

Scores of 10 students are given below. Find the median.

4.	Score	70	72	74	77	80	83	85
	No. of students	2	1	1	2	1	1	2

(i) 77 (ii) 79 (iii) 78 (iv) 76 (v) 75

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

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

(i) 8 mm (ii) 10 mm (iii) 11 mm (iv) 12 mm (v) 9 mm

Temperatures of 25 days are given below. Find the median.

6.	Temperature (in degree C)	25	26	27	28	29	30	31	32	34	35
	No. of days	5	4	1	1	2	4	2	3	1	2

(i) 29 °C (ii) 31 °C (iii) 28 °C (iv) 30 °C (v) 27 °C

7. Weights of 15 students are given below. Find the median.

Weight (in kg)	43	44	48	51	52	59	60
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No. of students	2	2	2	1	1	6	1
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(i) 52 kg (ii) 53 kg (iii) 51 kg (iv) 54 kg (v) 50 kg

Wages of 15 labourers are given below. Find the median.

8.

Wage (in rupees)	318	345	348	349	362	402	404	446	457
No. of labourers	3	1	1	1	3	2	1	1	2

(i) ₹ 363.00 (ii) ₹ 360.00 (iii) ₹ 364.00 (iv) ₹ 362.00 (v) ₹ 361.00

The following table shows the weights of 70 persons in a group.

Find the median weight.

9.

Weight (in kg)	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89	90 - 99
No. of persons	17	11	10	6	19	7

(i) $\frac{133}{2}$ kg (ii) $\frac{135}{2}$ kg (iii) $\frac{137}{2}$ kg (iv) 67 kg

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

Find the median weight.

10.

Weight (in kg)	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110	110 - 120
No. of persons	10	13	8	16	14	5	18

(i) 87 kg (ii) $\frac{697}{8}$ kg (iii) $\frac{711}{8}$ kg (iv) $\frac{703}{8}$ kg (v) $\frac{695}{8}$ kg

The daily wages of 89 workers in a factory are given below.

Find the median wage.

11.

Wage (in rupees)	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of workers	21	12	30	15	11

(i) ₹ 53.67 (ii) ₹ 53.33 (iii) ₹ 55.33 (iv) ₹ 54.33 (v) ₹ 54.00

The daily wages of 109 workers in a factory are given below.

Find the median wage.

12.

Wage (in rupees)	30 - 38	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78	78 - 86	86 - 94
No. of workers	14	5	18	9	25	22	8	8

(i) ₹ 64.76 (ii) ₹ 66.72 (iii) ₹ 64.80 (iv) ₹ 64.72 (v) ₹ 65.72

A frequency distribution table is given below.

Find the median .

13.

Class-Interval	9 - 15	16 - 22	23 - 29	30 - 36	37 - 43
Frequency	15	12	36	47	33

(i) $\frac{1540}{177}$ (ii) $\frac{1493}{177}$ (iii) $\frac{1448}{177}$ (iv) $\frac{1447}{177}$ (v) $\frac{1446}{177}$

A frequency distribution table is given below.

Find the median .

14.

Class-Interval	1 - 10	10 - 19	19 - 28	28 - 37	37 - 46	46 - 55
Frequency	20	36	21	36	26	38

- (i) $\frac{263}{8}$ (ii) 31 (iii) $\frac{249}{8}$ (iv) $\frac{247}{8}$ (v) $\frac{255}{8}$

The following frequency distribution table gives

the monthly consumption of electricity of 117 consumers in a locality.

15. Find the median units.

Monthly consumption (in units)	52 - 72	72 - 92	92 - 112	112 - 132	132 - 152	152 - 172
No. of consumers	18	19	19	21	15	25

- (i) $\frac{2402}{21}$ units (ii) $\frac{2423}{21}$ units (iii) $\frac{2444}{21}$ units (iv) $\frac{801}{7}$ units (v) $\frac{2404}{21}$ units

Assignment Key

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