EduSahara™ Assignment

Name : Median of Grouped Data

Chapter : Statistics

Grade : CBSE Grade X

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

Height (in cm)	140	142	154	163	164	166	172	173
No. of students	7	3	5	2	4	2	2	5

(i) $\frac{319}{2}$ cm (ii) $\frac{321}{2}$ cm (iii) $\frac{317}{2}$ cm (iv) 159 cm

2. Heights of 30 plants are given below. Find the median.

Height (in cm)	54	57	72	73	85	88	96	98
No. of plants	5	3	3	5	3	3	5	3

(i) 71 cm (ii) 74 cm (iii) 73 cm (iv) 72 cm (v) 75 cm

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

Age (in years)	10	11	12	13	14	15
No. of students	5	4	7	7	2	5

(i) 12 years (ii) 10 years (iii) 13 years (iv) 11 years (v) 14 years

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

Score	72	79	80	81	83	88
No. of students	4	3	3	1	3	1

(i) 78 (ii) 80 (iii) 79 (iv) 81 (v) 82

5. Rainfall of 25 days are given below. Find the median.

Rainfall (in mm)	5	6	7	10	11	13	14
No. of days	6	4	1	4	5	3	2

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

6. Temperatures of 10 days are given below. Find the median.

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

(i) $\frac{65}{2}$ °C (ii) $\frac{61}{2}$ °C (iii) 31 °C (iv) $\frac{63}{2}$ °C

7. Weights of 25 students are given below. Find the median.

Weight (in kg)	40	42	47	51	52	53	54	55	58	59
No. of students	3	3	3	1	2	3	3	2	4	1

(i) 54 kg (ii) 52 kg (iii) 55 kg (iv) 51 kg (v) 53 kg

8. Wages of 25 labourers are given below. Find the median.

Wage (in rupees)	306	327	336	354	374	376	398	451	459	472	483
No. of labourers	2	3	1	3	3	2	1	3	2	3	2

(i) ₹374.00 (ii) ₹375.00 (iii) ₹377.00 (iv) ₹378.00 (v) ₹376.00

9. The following table shows the weights of 67 persons in a group. Find the median weight.

Weight (in kg)	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87
No. of persons	9	6	19	9	11	13

(i) $\frac{2407}{38}$ kg (ii) $\frac{2405}{38}$ kg (iii) $\frac{2481}{38}$ kg (iv) $\frac{2443}{38}$ kg (v) $\frac{1203}{19}$ kg

10. The following table shows the weights of 87 persons in a group. Find the median weight.

Weight (in kg)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
No. of persons	20	5	20	12	11	19

(i) $\frac{357}{8}$ kg (ii) $\frac{359}{8}$ kg (iii) $\frac{365}{8}$ kg (iv) $\frac{179}{4}$ kg (v) $\frac{373}{8}$ kg

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

Wage (in rupees)	30 - 40	41 - 51	52 - 62	63 - 73	74 - 84	85 - 95	96 - 106	107 - 117
No. of workers	8	29	17	8	12	14	18	13

(i) ₹70.06 (ii) ₹70.19 (iii) ₹71.06 (iv) ₹70.12 (v) ₹72.06

12. The daily wages of 137 workers in a factory are given below. Find the median wage.

Wage (in rupees)	20 - 26	26 - 32	32 - 38	38 - 44	44 - 50	50 - 56	56 - 62	62 - 68
No. of workers	5	9	22	28	21	24	13	15

(i) ₹47.29 (ii) ₹46.29 (iii) ₹45.43 (iv) ₹45.29 (v) ₹45.57

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

Class-Interval	2 - 10	11 - 19	20 - 28	29 - 37	38 - 46	47 - 55	56 - 64	65 - 73
Frequency	2	46	22	45	16	2	24	27

(i) $\frac{329}{10}$ (ii) $\frac{339}{10}$ (iii) $\frac{331}{10}$ (iv) 33 (v) $\frac{349}{10}$

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

Class-Interval	4 - 12	12 - 20	20 - 28	28 - 36	36 - 44
Frequency	32	23	39	37	50

(i) $\frac{1103}{39}$ (ii) $\frac{82}{3}$ (iii) $\frac{1142}{39}$ (iv) $\frac{355}{13}$ (v) $\frac{1064}{39}$

15. The following frequency distribution table gives the monthly consumption of electricity of 102 consumers in a locality. Find the median units.

Monthly consumption (in units)	52 - 62	62 - 72	72 - 82	82 - 92	92 - 102	102 - 112	112 - 122
No. of consumers	17	5	12	17	9	21	21

(i) 94 units (ii) 92 units (iii) 93 units (iv) 90 units (v) 91 units

Assignment Key

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