

EduSahara™ Learning Center Assignment

Grade : Class X, ICSE

Chapter : Median, Quartiles and Mode

Name : Median of Grouped Data

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

1.	Height (in cm)	147	149	150	152	157	167	170
	No. of students	1	1	1	1	1	4	1

- (i) 160 cm (ii) 161 cm (iii) 164 cm (iv) 163 cm (v) 162 cm

Heights of 15 plants are given below. Find the median.

2.	Height (in cm)	66	67	71	78	80	85	91	96	100
	No. of plants	1	2	1	4	1	2	2	1	1

- (i) 79 cm (ii) 80 cm (iii) 76 cm (iv) 78 cm (v) 77 cm

Ages of 25 students are given below. Find the median.

3.	Age (in years)	10	11	12	13	14	15
	No. of students	2	2	1	6	6	8

- (i) 15 years (ii) 16 years (iii) 12 years (iv) 13 years (v) 14 years

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

4.	Score	72	76	80	81	89	90
	No. of students	2	1	1	2	1	3

- (i) 79 (ii) 81 (iii) 83 (iv) 82 (v) 80

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

5.	Rainfall (in mm)	6	9	12	13	14	15
	No. of days	1	1	3	3	1	1

- (i) $\frac{29}{2}$ mm (ii) 13 mm (iii) $\frac{25}{2}$ mm (iv) $\frac{27}{2}$ mm

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

6.	Temperature (in degree C)	26	27	29	30	31	32	34	35
	No. of days	2	3	5	2	8	3	1	1

- (i) 29 °C (ii) 33 °C (iii) 31 °C (iv) 32 °C (v) 30 °C

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

Weight (in kg)	40	44	46	47	49	50	53	55
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No. of students	4	4	1	3	1	1	7	4
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(i) 51 kg (ii) 48 kg (iii) 47 kg (iv) 50 kg (v) 49 kg

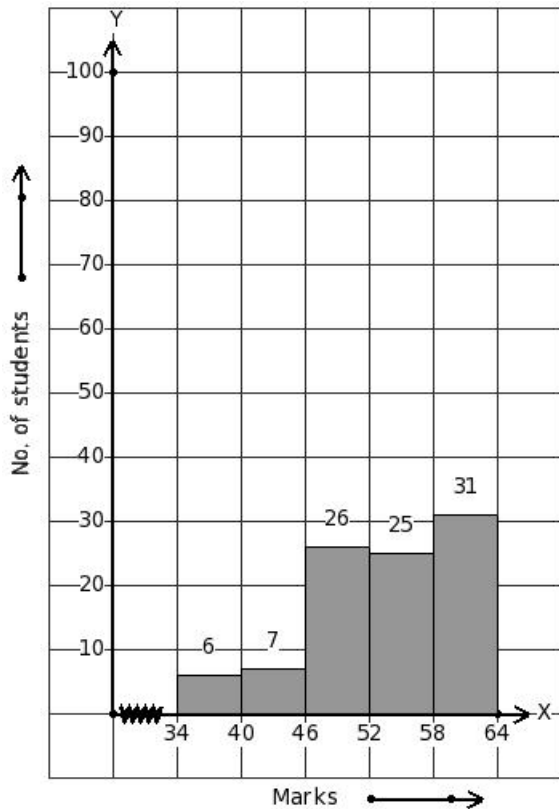
Wages of 30 labourers are given below. Find the median.

8.

Wage (in rupees)	343	375	405	423	438	442	444	445	464	481	485	499
No. of labourers	2	5	4	2	2	4	1	1	1	2	3	3

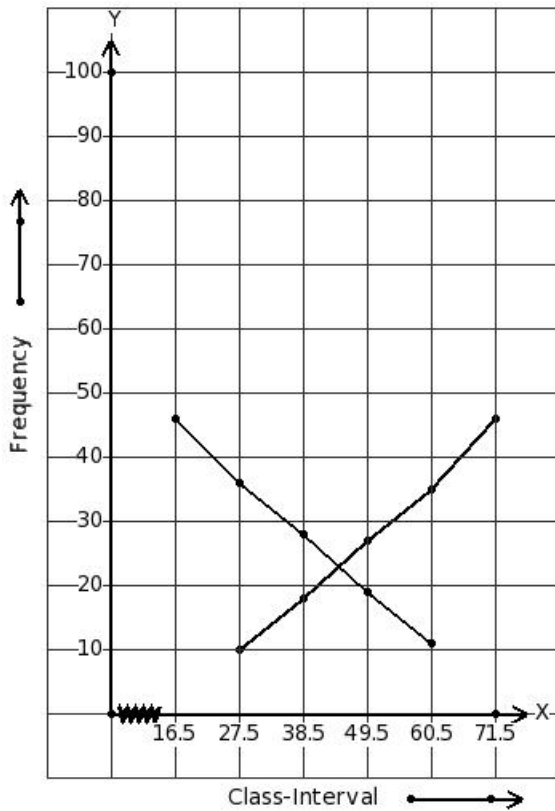
(i) ₹ 439.00 (ii) ₹ 442.00 (iii) ₹ 438.00 (iv) ₹ 440.00 (v) ₹ 441.00

9. The histogram given below represents the marks obtained by some candidates in an examination. Using data in the diagram, calculate the median marks.



(i) 56.04 (ii) 54.04 (iii) 53.04 (iv) 55.04 (v) 52.04

10. Identify the frequency distribution table for the given 'median' ogive.



(i)

Class-Interval	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
Frequency	18	1	10	6	16

(ii)

Class-Interval	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
Frequency	10	8	9	8	11

(iii)

Class-Interval	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
Frequency	20	20	14	7	8

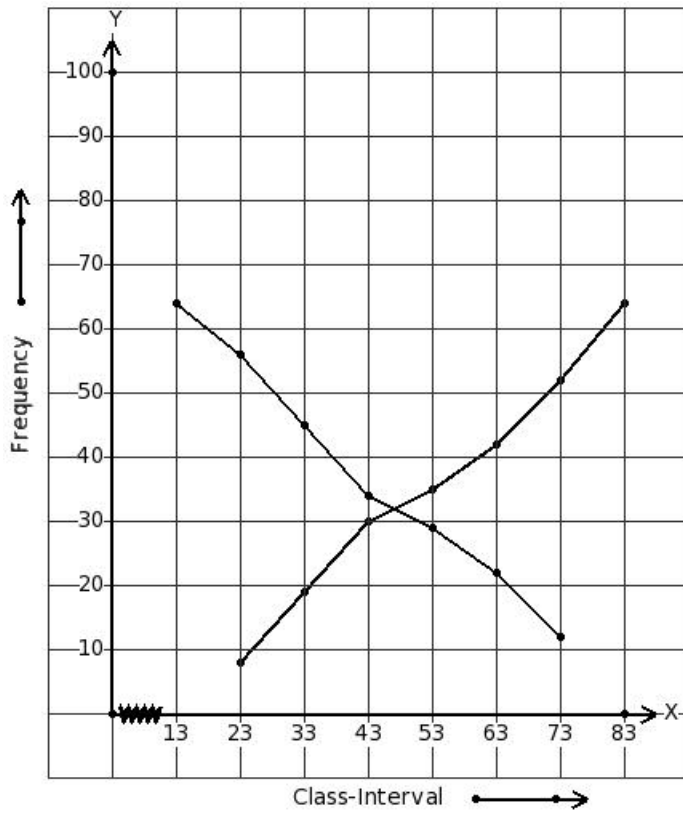
(iv)

Class-Interval	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
Frequency	1	16	8	8	5

(v)

Class-Interval	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
Frequency	6	15	19	15	5

11. Identify the frequency distribution table for the given 'median' ogive.



(i)

Class-Interval	13 - 23	23 - 33	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83
Frequency	20	12	8	7	5	3	15

(ii)

Class-Interval	13 - 23	23 - 33	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83
Frequency	8	11	11	5	7	10	12

(iii)

Class-Interval	13 - 23	23 - 33	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83
Frequency	15	13	6	13	20	11	10

(iv)

Class-Interval	13 - 23	23 - 33	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83
Frequency	4	15	9	19	14	19	13

(v)

Class-Interval	13 - 23	23 - 33	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83
Frequency	12	7	6	11	13	12	19

Assignment Key

- 1) (v)
- 2) (iv)
- 3) (v)
- 4) (ii)
- 5) (iii)
- 6) (iii)
- 7) (v)
- 8) (iv)
- 9) (ii)
- 10) (ii)
- 11) (ii)