EduSahara™ Assignment

Name : Median of Grouped Data

Chapter : Median, Quartiles and Mode

Grade : ICSE Grade X

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

Height (in cm)	127	129	134	142	143	145	146	147	149	155	172
No. of students	3	5	2	5	2	3	2	3	2	2	1

(i) 143 cm (ii) $\frac{287}{2}$ cm (iii) $\frac{285}{2}$ cm (iv) $\frac{289}{2}$ cm

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

Height (in cm)	51	65	71	73	75	82	88	95
No. of plants	3	2	2	1	1	1	1	4

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

3. Ages of 20 students are given below. Find the median.

Age (in years)	10	11	12	13	14	15
No. of students	4	5	3	4	3	1

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

4. Scores of 25 students are given below. Find the median.

Score	70	78	81	82	86	87	88	89
No. of students	4	4	6	1	2	5	2	1

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

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

Rainfall (in mm)	5	6	7	9	10	12	13	14	15
No. of days	1	2	5	5	2	3	3	3	1

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

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

Temperature (in degree C)	25	26	27	30	31	32	34
No. of days	1	2	1	2	1	1	2

(i) 28 °C (ii) 32 °C (iii) 31 °C (iv) 30 °C (v) 29 °C

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

Weight (in kg)	41	45	47	49	50	53	55	56	57
No. of students	2	7	3	1	5	1	3	1	2

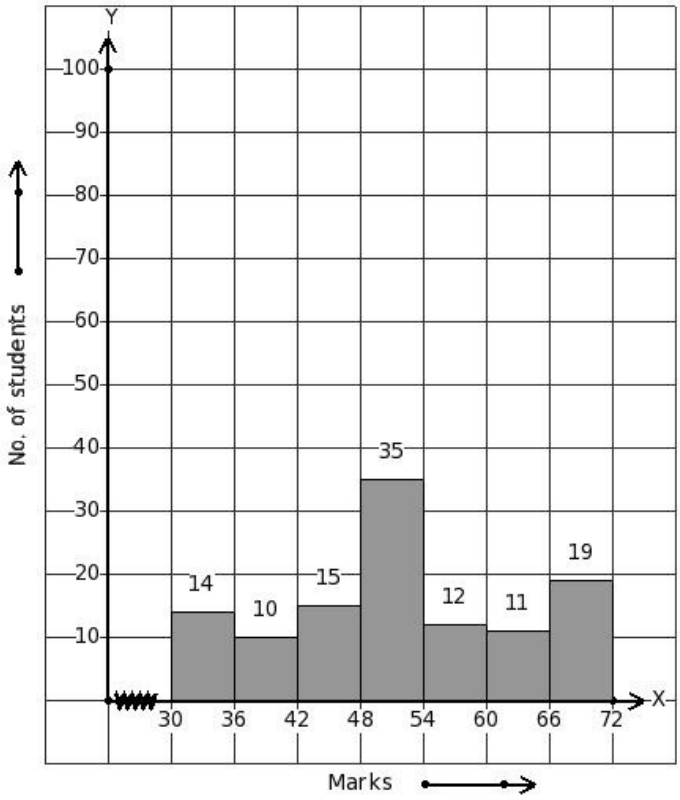
(i) 49 kg (ii) 51 kg (iii) 47 kg (iv) 50 kg (v) 48 kg

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

Wage (in rupees)	341	376	409	457	473	491
No. of labourers	1	2	2	5	3	2

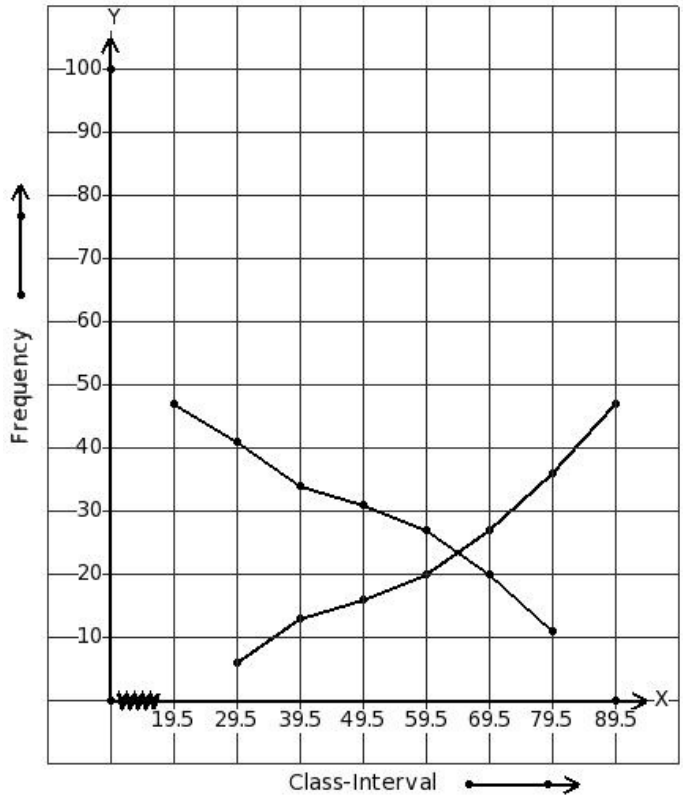
(i) ₹459.00 (ii) ₹455.00 (iii) ₹456.00 (iv) ₹458.00 (v) ₹457.00

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) 53.26 (ii) 52.26 (iii) 50.26 (iv) 51.26 (v) 49.26

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



(i)

Class-Interval	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
Frequency	10	3	15	15	7	5	6

(ii)

Class-Interval	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
Frequency	6	7	3	4	7	9	11

(iii)

Class-Interval	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
Frequency	12	5	5	10	4	4	2

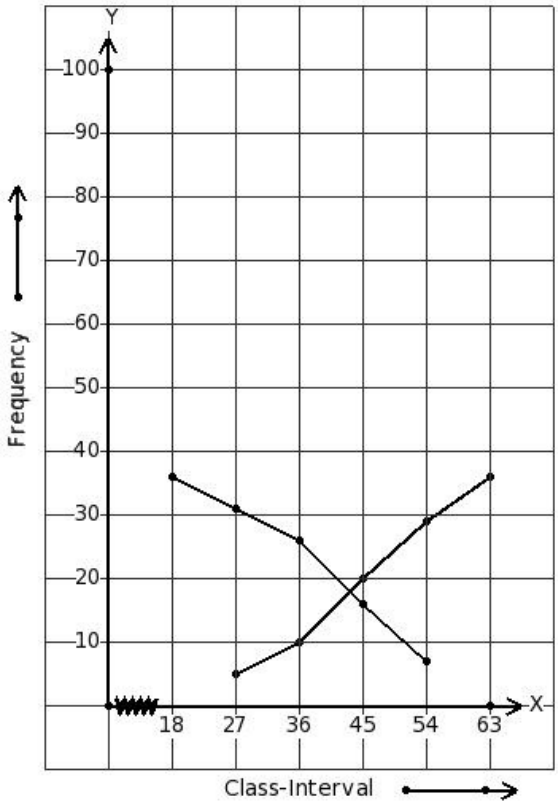
(iv)

Class-Interval	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
Frequency	20	11	20	5	20	14	6

(v)

Class-Interval	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
Frequency	17	13	8	1	6	18	1

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



(i)

Class-Interval	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
Frequency	5	5	10	9	7

(ii)

Class-Interval	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
Frequency	14	2	16	10	18

(iii)

Class-Interval	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
Frequency	6	5	2	3	15

(iv)

Class-Interval	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
Frequency	15	12	17	9	7

(v)

Class-Interval	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
Frequency	5	13	1	6	10

Assignment Key

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

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