

EduSahara™ Learning Center Assignment

Grade : Class X, ICSE

Chapter : Median, Quartiles and Mode

Name : Quartiles

In a class test, the marks obtained by 8 students are

1. 30 , 19 , 11 , 33 , 13 , 22 , 23 , 46

Find the lower quartile.

- (i) 30 (ii) $8\frac{1}{2}$ (iii) 17 (iv) 13 (v) $24\frac{5}{8}$

In a class test, the marks obtained by 10 students are

2. 49 , 26 , 46 , 34 , 34 , 41 , 36 , 13 , 19 , 34

Find the upper quartile.

- (i) 8 (ii) 36 (iii) $33\frac{1}{5}$ (iv) $38\frac{1}{2}$ (v) $22\frac{1}{2}$

In a class test, the marks obtained by 10 students are

3. 11 , 10 , 39 , 26 , 33 , 17 , 40 , 21 , 50 , 12

Find the inter quartile range.

- (i) $12\frac{1}{4}$ (ii) $24\frac{1}{2}$ (iii) 36 (iv) $25\frac{9}{10}$ (v) $11\frac{1}{2}$

In a class test, the marks obtained by 8 students are

4. 31 , 29 , 45 , 34 , 17 , 27 , 48 , 49

Find the semi-inter quartile range.

- (i) 45 (ii) 18 (iii) 27 (iv) 9 (v) 32

Heights of 45 students are given below. Find the first quartile.

5.

Height (in cm)	130	134	137	150	160	161	162	163	168	169
No. of students	6	3	7	3	4	4	2	6	7	3

- (i) 136 (ii) 137 (iii) 139 (iv) 135 (v) 138

Heights of 25 students are given below. Find the third quartile.

6.

Height (in cm)	132	138	141	144	151	162	165	169	171
No. of students	1	4	3	5	3	3	3	2	1

- (i) 164.5 (ii) 161.5 (iii) 165.5 (iv) 163.5 (v) 162.5

7. Heights of 26 students are given below. Find the interquartile.

Height (in cm)	129	130	133	136	141	143	158	160	163

No. of students	3	4	2	5	1	2	4	2	3
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(i) 27 (ii) 29 (iii) 28 (iv) 26 (v) 30

In a class test, the marks obtained by 11 students are

8. 46, 46, 39, 50, 27, 34, 33, 34, 14, 24, 24

Find the lower quartile.

(i) 11 (ii) 36 (iii) 46 (iv) 24 (v) 22

In a class test, the marks obtained by 9 students are

9. 10, 37, 26, 10, 19, 16, 38, 24, 13

Find the upper quartile.

(i) $21\frac{4}{9}$ (ii) $31\frac{1}{2}$ (iii) 20 (iv) 10 (v) $11\frac{1}{2}$

In a class test, the marks obtained by 9 students are

10. 44, 49, 32, 10, 47, 42, 11, 28, 15

Find the inter quartile range.

(i) 13 (ii) $32\frac{1}{2}$ (iii) $16\frac{1}{4}$ (iv) $45\frac{1}{2}$ (v) 39

In a class test, the marks obtained by 8 students are

11. 17, 41, 37, 26, 32, 38, 14, 16

Find the semi-inter quartile range.

(i) $10\frac{1}{2}$ (ii) 21 (iii) $27\frac{5}{8}$ (iv) 16 (v) 27

Heights of 38 students are given below. Find the first quartile.

12.	Height (in cm)	126	128	131	134	146	147	161	163	167	173
	No. of students	4	2	1	4	7	5	1	2	4	8

(i) 133 (ii) 134 (iii) 136 (iv) 135 (v) 132

Heights of 39 students are given below. Find the third quartile.

13.	Height (in cm)	128	133	135	144	145	147	151	154	160	163
	No. of students	4	2	1	2	5	5	7	4	3	6

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

Heights of 40 students are given below. Find the interquartile.

14.	Height (in cm)	126	129	136	143	145	146	148	150	154	156	164
	No. of students	5	2	6	2	2	7	1	4	3	5	3

(i) 16 (ii) 17 (iii) 19 (iv) 18 (v) 20

Assignment Key

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