Name: Quartiles

Chapter: Median, Quartiles and Mode

Grade: ICSE Grade X

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

1. 13 30 49 31 22 17 14 14 46

Find the lower quartile.

(i)  $26\frac{2}{9}$  (ii)  $38\frac{1}{2}$  (iii) 14 (iv) 36 (v)  $24\frac{1}{2}$ 

In a class test, the marks obtained by 12 students are

- 2. 41 15 30 46 38 40 31 29 34 22 11 47 Find the upper quartile.
  - (i) 36 (ii) 40 (iii) 18 (iv) 32 (v) 9

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

3. 20 40 42 11 16 16 34 24 10

Find the inter quartile range.

(i) 
$$13\frac{1}{2}$$
 (ii) 37 (iii)  $23\frac{2}{3}$  (iv)  $23\frac{1}{2}$  (v)  $11\frac{3}{4}$ 

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

4. 25 50 15 39 21 44 11 42

Find the semi-inter quartile range.

(i) 39 (ii) 15 (iii) 27 (iv) 42 (v) 
$$13\frac{1}{2}$$

Heights of 50 students are given below. Find the first quartile.

5.   <b>Height (in cm)</b>   135   142   145   150   164   167   172	フ   175	
	_   _ , _	75
<b>No. of students</b> 5 8 9 5 5 4 8	6	6

(i) 144 (ii) 140 (iii) 143 (iv) 142 (v) 141

Heights of 29 students are given below. Find the third quartile.

6.	Height (in cm)	129	130	131	132	143	154	160	165	168	169
	No. of students	3	2	2	3	4	1	1	5	3	5

(i) 170 (ii) 166 (iii) 169 (iv) 167 (v) 168

Heights of 47 students are given below. Find the interquartile.

7.	Height (in cm)	127	131	133	134	139	140	141	149	153	167	170	172
	No. of students	4	5	4	5	3	3	4	4	4	4	5	2

(i) 18 (ii) 20 (iii) 21 (iv) 19 (v) 22

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

- 8. 37 29 12 16 30 39 37 41 37 47 34 Find the lower quartile.
  - (i) 5 (ii) 35 (iii)  $32\frac{7}{11}$  (iv) 10 (v) 29

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

9. 19 15 36 25 43 50 23 12

Find the upper quartile.

(i) 15 (ii)  $10\frac{1}{2}$  (iii) 36 (iv)  $27\frac{7}{8}$  (v) 21

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

10. 14 20 12 18 19 42 19 44 22 34

Find the inter quartile range.

(i) 
$$24\frac{2}{5}$$
 (ii) 28 (iii) 32 (iv) 12 (v) 6

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

11. 36 42 31 27 21 43 18 13

Find the semi-inter quartile range.

(i) 
$$28\frac{7}{8}$$
 (ii) 9 (iii) 18 (iv) 30 (v) 36

Heights of 37 students are given below. Find the first quartile.

12.	Height (in cm)	156	157	158	163	165	166	167	170	175
	No. of students	6	6	4	2	2	6	3	5	3

(i) 155 (ii) 157 (iii) 158 (iv) 156 (v) 159

Heights of 37 students are given below. Find the third quartile.

13.	Height (in cm)	127	138	144	147	152	153	156	160	168	171
	No. of students	7	5	3	1	1	7	1	3	5	4

(i) 162 (ii) 166 (iii) 165 (iv) 163 (v) 164

Heights of 28 students are given below. Find the interquartile.

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14.	Height (in cm)	129	130	136	138	143	144	150	152
	No. of students	1	1	3	3	6	8	4	2

(i) 8 (ii) 5 (iii) 4 (iv) 7 (v) 6

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

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