EduSahara™ Assignment

Name : Quartiles

Chapter : Median, Quartiles and Mode

Grade : ICSE Grade X



1. In a class test, the marks obtained by 9 students are
50 35 35 12 36 36 29 14 33
Find the lower quartile.

(i) 36 (ii) $21\frac{1}{2}$ (iii) $31\frac{1}{9}$ (iv) $7\frac{1}{4}$ (v) $14\frac{1}{2}$

2. In a class test, the marks obtained by 11 students are
42 11 21 28 30 48 37 10 38 35 12
Find the upper quartile.

(i) 38 (ii) 13 (iii) 26 (iv) $28\frac{4}{11}$ (v) 12

3. In a class test, the marks obtained by 9 students are
45 40 11 29 20 24 26 31 40
Find the inter quartile range.

(i) 9 (ii) $29\frac{5}{9}$ (iii) 34 (iv) 40 (v) 18

4. In a class test, the marks obtained by 8 students are
43 49 44 13 27 48 50 33
Find the semi-inter quartile range.

(i) 37 (ii) 21 (iii) 27 (iv) 48 (v) $10\frac{1}{2}$

5. Heights of 30 students are given below. Find the first quartile.

| **Height (in cm)** | 125 | 127 | 128 | 131 | 133 | 136 | 140 | 163 | 164 | 167 | 169 | 175 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. of students** | 2 | 3 | 4 | 4 | 1 | 6 | 1 | 1 | 1 | 1 | 3 | 3 |

(i) 129 (ii) 130 (iii) 128 (iv) 126 (v) 127

6. Heights of 43 students are given below. Find the third quartile.

| **Height (in cm)** | 126 | 135 | 136 | 137 | 139 | 144 | 146 | 148 | 163 | 165 | 167 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. of students** | 5 | 4 | 5 | 3 | 5 | 6 | 4 | 3 | 3 | 4 | 1 |

(i) 149 (ii) 147 (iii) 148 (iv) 150 (v) 146

7. Heights of 25 students are given below. Find the interquartile.

| **Height (in cm)** | 132 | 133 | 134 | 146 | 152 | 156 | 160 | 165 | 167 | 172 |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. of students** | 4 | 1 | 4 | 2 | 3 | 3 | 1 | 2 | 3 | 2 |

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

8. In a class test, the marks obtained by 12 students are
33 24 28 18 26 19 37 33 47 24 45 44
Find the lower quartile.

(i) 13 (ii) $31\frac{1}{2}$ (iii) 24 (iv) 37 (v) 29

9. In a class test, the marks obtained by 8 students are
18 12 16 26 23 16 48 30
Find the upper quartile.

(i) $23\frac{5}{8}$ (ii) 16 (iii) 26 (iv) 10 (v) 36

10. In a class test, the marks obtained by 8 students are
13 12 48 29 44 27 12 39
Find the inter quartile range.

(i) 27 (ii) 39 (iii) $13\frac{1}{2}$ (iv) 36 (v) 12

11. In a class test, the marks obtained by 8 students are
45 47 39 20 20 43 15 24
Find the semi-inter quartile range.

(i) 23 (ii) 43 (iii) $31\frac{5}{8}$ (iv) $11\frac{1}{2}$ (v) 20

12. Heights of 49 students are given below. Find the first quartile.

| **Height (in cm)** | 127 | 130 | 135 | 136 | 140 | 165 | 170 |
|---|---|---|---|---|---|---|---|
| **No. of students** | 9 | 7 | 8 | 4 | 7 | 5 | 9 |

(i) 131 (ii) 128 (iii) 129 (iv) 130 (v) 132

13. Heights of 48 students are given below. Find the third quartile.

| **Height (in cm)** | 127 | 129 | 133 | 135 | 143 | 146 | 152 | 159 | 161 | 162 | 163 | 166 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. of students** | 6 | 3 | 1 | 7 | 5 | 4 | 6 | 4 | 3 | 2 | 4 | 3 |

(i) 159 (ii) 160 (iii) 158 (iv) 161 (v) 157

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

| **Height (in cm)** | 130 | 134 | 141 | 147 | 148 | 149 | 151 | 157 | 172 |
|---|---|---|---|---|---|---|---|---|---|
| **No. of students** | 4 | 3 | 4 | 5 | 7 | 9 | 3 | 5 | 7 |

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

## Assignment Key

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