



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

1. 11 16 34 15 19 15 47 34 35 41 31

Find the lower quartile.

- (i) $27\frac{1}{11}$ (ii) 10 (iii) 35 (iv) 20 (v) 15

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

2. 10 27 22 19 18 43 25 50 30 19

Find the upper quartile.

- (i) $28\frac{1}{2}$ (ii) 40 (iii) $26\frac{3}{10}$ (iv) $18\frac{1}{2}$ (v) 10

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

3. 35 41 28 32 41 50 48 32 39 42 37

Find the inter quartile range.

- (i) 10 (ii) 32 (iii) 22 (iv) 42 (v) $38\frac{7}{11}$

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

4. 34 29 13 29 24 25 31 38 29 18

Find the semi-inter quartile range.

- (i) 27 (ii) 30 (iii) 21 (iv) $4\frac{1}{2}$ (v) 9

Heights of 43 students are given below. Find the first quartile.

5.

| | | | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Height (in cm) | 130 | 131 | 134 | 135 | 141 | 143 | 146 | 151 | 160 | 163 | 175 |
| No. of students | 7 | 6 | 5 | 4 | 4 | 4 | 3 | 1 | 4 | 3 | 2 |

- (i) 131 (ii) 129 (iii) 132 (iv) 133 (v) 130

Heights of 35 students are given below. Find the third quartile.

6.

| | | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Height (in cm) | 129 | 144 | 145 | 146 | 156 | 157 | 158 | 161 | 167 | 171 |
| No. of students | 3 | 8 | 3 | 5 | 2 | 3 | 1 | 5 | 3 | 2 |

- (i) 162 (ii) 160 (iii) 159 (iv) 163 (v) 161

Heights of 42 students are given below. Find the interquartile.

7.

| | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Height (in cm) | 126 | 131 | 141 | 142 | 154 | 159 | 163 | 165 | 174 |
| No. of students | 11 | 2 | 6 | 1 | 7 | 3 | 4 | 4 | 4 |

- (i) 38 (ii) 39 (iii) 37 (iv) 36 (v) 35

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

8. 50 16 39 30 44 34 34 10 37 41 16 30

Find the lower quartile.

- (i) 40 (ii) 39 (iii) 16 (iv) $11\frac{1}{2}$ (v) $31\frac{3}{4}$

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

9. 23 45 28 36 11 46 48 40 43 41

Find the upper quartile.

- (i) 37 (ii) $18\frac{1}{2}$ (iii) $36\frac{1}{10}$ (iv) 44 (v) $9\frac{1}{4}$

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

10. 43 21 31 42 39 32 21 25

Find the inter quartile range.

- (i) 18 (ii) 39 (iii) 22 (iv) 9 (v) $31\frac{3}{4}$

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

11. 30 36 35 47 42 32 40 18 33 10

Find the semi-inter quartile range.

- (i) 24 (ii) 38 (iii) 37 (iv) 14 (v) 7

Heights of 33 students are given below. Find the first quartile.

12.

| | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Height (in cm) | 126 | 131 | 144 | 149 | 158 | 161 | 162 | 163 |
| No. of students | 4 | 1 | 3 | 3 | 9 | 6 | 3 | 4 |

- (i) 145.5 (ii) 147.5 (iii) 146.5 (iv) 148.5 (v) 144.5

Heights of 32 students are given below. Find the third quartile.

13.

| | | | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Height (in cm) | 133 | 136 | 142 | 144 | 146 | 150 | 155 | 156 | 159 | 170 | 173 |
| No. of students | 3 | 2 | 3 | 3 | 5 | 2 | 5 | 3 | 3 | 1 | 2 |

- (i) 156 (ii) 158 (iii) 157 (iv) 154 (v) 155

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

14.

| | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Height (in cm) | 131 | 133 | 134 | 137 | 150 | 151 | 159 | 162 |
| No. of students | 2 | 5 | 3 | 2 | 5 | 4 | 3 | 1 |

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

Assignment Key

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