Name:

Exam Style Questions

Quartiles

Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 57b

Answers and Video Solutions

1. Seven students sit a test.
Here are their results

58% 61% 64% 66% 67% 68% 70%

(a) Find the median.

.....

(1)

(b) Find the lower quartile score.

.....

(1)

(c) Find the upper quartile score.

.....

(1)

(d) Work out the interquartile range.

.....

(1)

2. The speeds of 11 cars passing a speed camera are recorded below.

19 22 26 28 28 29 29 30 30 31 36

(a) Find the median.

.....

(1)

(b) Find the lower quartile.

.....

(1)

(c) Find the upper quartile.

.....

(1)

(d) Work out the interquartile range.

.....

(1)

3. The heights of 7 footballers are measured.

180cm 179cm 185cm 177cm 172cm 190cm 188cm

Work out the upper quartile of the heights.

.....

(1)

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4. 11 people solve a puzzle.

The times taken, in minutes, by each person to solve the puzzle are shown below.

8 3 7 8 9 13 4 9 9 10 9

(a) Work out the lower quartile.

.....minutes

(1)

(b) Work out the upper quartile.

.....minutes

(1)

5. Here are the ages of 15 people.

24 26 29 30 31 36 36 37 39 40 43 48 50 51 55

Work out the interquartile range of the ages.

.....

(2)

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6. 11 students guess the number of jelly beans in a jar.
Here are their guesses.

400 673 850 900 1001 1200 1222 1280 1350 1371 2600

(a) Work out the range of the guesses.

.....

(1)

(b) Work out the interquartile range of the guesses.

.....

(1)

7. The ages of 11 trees, in years, are shown below.
The ages are arranged from youngest to oldest.

	26	30	43	49	49	55	58		76	90

The range of the ages is 73 years.
The interquartile range of the ages is 30 years.

Find the two missing ages.

(2)

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8. Seven judges scored a joke out of 10.
Some of the scores are below.

1.1		1.8		2.7	5.1	6.5

The median score is half the interquartile range.

The interquartile range is two thirds of the range.

Find the two missing numbers.

(2)

9. The students in Class 10A and Class 10B sit an exam.

Here are the scores for each of the 15 students in Class 10A.

12 20 25 27 31 32 35 35 36 36 36 39 40 41 48

(a) Complete the table below.

Lowest score	
Lower quartile	
Median	
Upper quartile	
Highest score	

(3)

Here is information about the scores achieved by the students in Class 10B.

Lowest score	14
Lower quartile	30
Median	37
Upper quartile	48
Highest score	50

(b) Compare the distribution of the scores achieved by Class 10A with the distribution of the scores achieved by Class 10B.

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(2)