

Mean, Median, Mode and Range

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **25**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 Here are seven numbers.

7 3 9 4 7 10 2

(a) Write down the mode.

[1 mark]

Answer _____

(b) Work out the median.

[1 mark]

Answer _____

(c) Work out the mean.

[2 marks]

Answer _____

(d) Work out the range.

[1 mark]

Answer _____

2 Circle the median of these numbers.

5 8 12 15

[1 mark]

8

10

12

40

3 Each number in a list is increased by 10
Tick **one** box for each statement.

[3 marks]

	True	False	Cannot tell
The mode is increased by 10	☐	☐	☐
The median is increased by 10	☐	☐	☐
The range is increased by 10	☐	☐	☐

4 Here are five cards. One card is face down.

4	9	5	3	
---	---	---	---	--

The mean of the five numbers is 6

Work out the number on the fifth card.

[2 marks]

Answer _____

- 5** Write down four numbers that have
a mode of 5
a median of 6
a range of 4

[2 marks]

Answer _____

- 6** Six numbers are written in order of size.

2 5 x 11 13 20

The median of the six numbers is 9
Work out the value of x .

[2 marks]

Answer $x =$ _____

- 7** Here are the salaries, in £, of the 6 workers in a company.

18 200 20 400 21 800 21 800 21 800 94 000

- (a) Work out the mean salary.

[2 marks]

Answer £ _____

- (b) Why is the mean not the best average to represent the salaries?

[1 mark]

- 8** Jess has taken five tests. Her mean score is 72
After her sixth test, her mean score is 74
What did she score in her sixth test?

[3 marks]

Answer _____

- 9 Lowri sits four tests. Each test is out of 40 marks.
Her scores in the first three tests are

32 26 29

She wants her mean percentage for the four tests to be at least 75%
Work out the lowest score she needs in the fourth test.

[4 marks]

Answer _____ out of 40