

9-1 GCSE Maths Averages – Foundation (and Higher) with problem solving – www.m4ths.com

(1) Complete the table below

Statement	True or False
To find the mean the numbers must be in order	
You can't have more than one mode	
There can be two median values	
The range is the highest plus the lowest value	
The mean is often just called the average	
If the mean of a data set is 5 and there are 4 numbers in the data set then the sum of the data set is 20	

(2) Find the mean, mode, median and range of the set of numbers below:

11, 12, 10, 10, 5, 15

Mean	Mode	Median	Range

(3) Find the mean, mode, median and range of the set of numbers below:

6, 0, -1, 4, 7, 8, 2, 3

Mean	Mode	Median	Range

(4) Place 4 of the numbers below in the 4 boxes given such that:

The mode of the numbers is 6

The range of the numbers is 10

5, 7, 6, 3, 11, 1, 6, 2, 7

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(5) Place 4 of the numbers below in the 4 boxes given such that:

There is no mode

The range of the numbers is 20

The median is 7

6, 21, 9, 8, 9, 22, 25, 11, 5,

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(6) If John takes 5 tests and his average (mean score) is 4 marks per test, how many marks did he score in total?

(7) Fred takes 6 tests. He needs to average 5 marks per test to pass his course. He has scored 4, 6, 3, 3 and 2 in the first 5 tests. What is the minimum he needs to score in the last test to make sure he passes?

(8) The range of the data set below is 18. Find a possible value of x :

6, 5, 11, x , 4, 13, 9

(9) The mean of the following numbers is 6. Add two numbers to the boxes to make this true.

	5	6	
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(10) The only mode of in the numbers shown below is 7. Write down which numbers can't go in the empty box

6	7	7	3	5	2		1
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