JustMaths

The table shows the marks scored in a mental arithmetic test by 30 students.

Mark		Frequency	
4	×	3	= 12
5	×	1	= 5
6	×	2	= 12
7	×	8	= 56
8	×	6	= 48
9	×	5	= 45
10	×	5	= 50
		30	228

a) Which mark is the mode?

= 7

(1)

b) Which mark is the median?

= 7

(1)

c) What is the range of the data?

10 - 4 = 6

(1)

d) Calculate the mean mark

= 228 ÷ 30 = 7·6

(3)

Faisal carries out a survey of 100 students in year 11.

He asks each student how many cars there are at their household. The results are shown in the table.

Mark		Frequency	
0	×	6	= 0
1	×	17	= 17
2	×	52	= 104
3	×	22	= 66
4	×	3	= 12
Total		100	199

The total has already been done for you

Work out the mean number of cars at each household.

199 ÷ 100 = 1·99

mode = 2
median = 2
Range = 4 - 0 = 4

(3)

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Bianca asked 32 women about the number of children they each had. The table shows information about her results.

Number of children		Frequency		
0	×	9	=	0
1	×	6	=	6
2	×	7	=	14
3	×	8	=	24
4	×	2	=	8
More than 4	×	0	=	0
		32		52

a) Find the mode

most often occurring

= 0

(1)

b) Calculate the mean

= 52 ÷ 32 = 1·625

(3)

You may also be asked to find the median (middle) or the range (biggest - smallest)

median = 2

Range = 4 - 0 = 2