Topic Test 6 – 20 Minutes

1   Which are examples of discrete data?

Circle your answers.

[2 marks]

weight   number of sisters   number of pets   speed

2   Below is a list of data.

15   42   25   16   24   17   22   35   29

2   (a)   Work out the median.

[2 marks]

_____

Answer _____

2   (b)   Work out the mean.

[2 marks]

_____

_____

Answer _____

2   (c)   Work out the range.

[2 marks]

_____

Answer _____

3 Write down **four** whole numbers with a mean of 10, a mode of 12 and a range of 8.

[3 marks]

Answers _____ , _____ , _____ , _____

4 The number of passengers on a train carriage were recorded over a 20 day period.

Passengers	Number of days	
20	4	
21	8	
22	3	
23	2	
24	1	
25	2	

4 **(a)** Calculate the range in the number of passengers.

[2 marks]

Answer _____

4 **(b)** Work out the modal number of passengers in the carriage.

[1 mark]

Answer _____

5 The table shows the weights of 40 students in a year group.

Weight, *w*, (kg)	Number of students
48 < *w* ≤ 56	5
56 < *w* ≤ 64	7
64 < *w* ≤ 72	10
72 < *w* ≤ 80	8
80 < *w* ≤ 88	7
88 < *w* ≤ 96	3

5 (a) Work out the class interval containing the median.

[2 marks]

Answer

5 (b) Calculate an estimate for the mean weight of the students.

[4 marks]

Answer _____ kg