

Topic Test 4 – 20 Minutes

1 Which is an example of continuous data?

Circle your answer.

[1 mark]

number of pages in a book weight of a book cost of a book

2 Tom makes school shirts. The sizes of his shirts are in years.

He ask for the sizes of the first thirteen shirts sold one day.

The list below shows the information.

15 6 7 11 7 5 7
7 14 8 8 9 10

2 (a) What is the mode?

[1 mark]

Answer _____

2 (b) What is the median?

[2 marks]

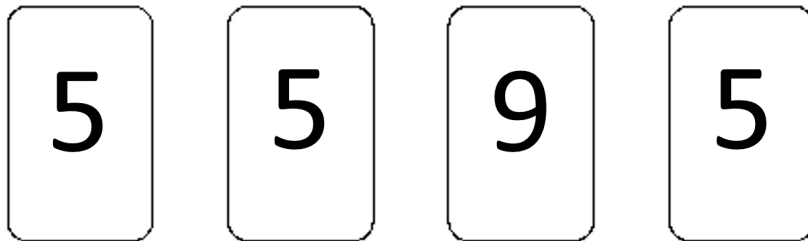
Answer _____

2 (c) Tom needs to start making some more shirts. Would he find the mode or median more useful when he is planning what sizes to make next?
Give a reason for your answer.

[2 marks]

Answer _____

3 Here are four cards with numbers on.



Simon thinks that the mode of the cards is higher than the mean.

Clare thinks the mean of the cards is higher than the mode.

Who is correct? Give a reason for your answer.

[3 marks]

Answer _____

- 4 Sam did a survey of the number of portions of fruit and vegetables people had in one day.

This frequency table shows the results.

Number of fruit or vegetables	Frequency
0	4
1	10
2	5
3	4
4	2

- 4 (a) How many people did Sam ask in her survey?

[1 mark]

Answer _____

- 4 (b) Work out the median from the table.

[2 marks]

Answer _____

4 (c) Calculate the mean number of fruit and vegetables people had on that day.

[3 marks]

Answer _____

4 (d) How many people ate more than two portions of fruit or vegetables that day?

[1 mark]

Answer _____

5

The table below shows the number of minutes people had to wait for fuel at a petrol station one morning.

Time, t (minutes)	Number of people
$0 < t \leq 2$	10
$2 < t \leq 4$	12
$4 < t \leq 6$	23
$6 < t \leq 8$	18
$8 < t \leq 10$	17

Calculate an estimate of the mean waiting time.

[4 marks]

Answer _____ minutes