Topic Test 7 – Statistical Measures

1   Below is a list of numbers.

   7   6   4   3   7   7   3   4   0   9

1   **(a)**   What is the mode?

[1 mark]

Circle your answer.

          5   7   6   9

1   **(b)**   What is the mean?

[2 marks]

_____

_____

Circle your answer.

          5   7   6   9

1   **(c)**   What is the range?

[1 mark]

Circle your answer.

          5   7   6   9

1   **(d)**   What is the median?

[2 marks]

_____

_____

Circle your answer.

          5   7   6   9

2   Here is a list of numbers

7   4   2   2   5

2   **(a)**   Find the mean of the numbers.

[2 marks]

Answer _____

2   **(b)**   15 is added to each of the numbers in the list.
What will the mean be now?

[2 marks]

Answer _____

3 **(a)** Ten dogs attend a training class with their owners and are scored out of 10.

5 of the dogs are Alsatians and the other 5 are Labradors.
The Alsatians had a range of 8 and a mean of 4.4

Here are the results for the Labradors.

7   5   8   9   4

Use the data to investigate the hypothesis.

'Labradors score better in training than Alsatians.'

[5 marks]

_____

_____

_____

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_____

_____

_____

3 **(b)** Give <u>two</u> ways you could improve the investigation to make the conclusion more reliable?
[2 marks]

First way
_____

_____

Second way
_____

_____