Statistics: 10 practice questions

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Name: _____ Date: _____

Attempt all questions and show your working. Suggested time: 15 to 20 minutes.

Section A: Consolidating (Questions 1-4)

Question 1

Find the range of this data set.

12, 5, 19, 8, 15

Question 2

Find the mode of this data set.

3, 5, 5, 6, 8, 5, 9, 6

Question 3

Find the median of this data set.

11, 4, 9, 15, 7

Question 4

Find the mean of this data set.

6, 9, 10, 15

Section B: Standard (Questions 5-10)

Question 5

State whether each numerical variable is discrete or continuous.

(a) The number of goals scored in a netball match

(b) The time taken to run 100 m

(c) The mass of a newborn puppy

(d) The number of siblings a student has

Question 6

For the data set below, find the mean, median, mode and range.

3, 7, 2, 9, 7, 8

Question 7

The maximum daily temperatures in Geelong over 8 days, in °C, were:

18, 22, 25, 19, 21, 24, 20, 23

(a) Find the median temperature.

(b) Find the mean temperature.

(c) Find the range.

Question 8

Twenty students were asked how many pets they have. The results are in the table.

Number of pets	**0**	**1**	**2**	**3**	**4**
Number of students	4	7	5	3	1

Find:

(a) the mode

(b) the median

(c) the mean

(d) the range

Question 9

The mean of five test scores is 14. Four of the scores are 12, 15, 10 and 17. Find the fifth score.

Question 10

Six friends get this much pocket money each week:

$15, $20, $12, $20, $18, $65

(a) Find the mean, median and mode.

(b) Which of these three measures best describes a typical amount? Explain.

Statistics: answers

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Question 1

Answer: 14 (19 - 5)

Question 2

Answer: 5

Question 3

Answer: 9 (ordered: 4, 7, 9, 11, 15)

Question 4

Answer: 10 (40 ÷ 4)

Question 5

Answer: (a) Discrete (b) Continuous (c) Continuous (d) Discrete

Question 6

Answer: Mean 6, median 7, mode 7, range 7

Question 7

Answer: (a) 21.5°C (b) 21.5°C (172 ÷ 8) (c) 7°C

Question 8

Answer: (a) 1 (b) 1 (10th and 11th values are both 1) (c) 1.5 (30 ÷ 20) (d) 4

Question 9

Answer: 16 (5 × 14 = 70, 70 - 54 = 16)

Question 10

Answer: (a) Mean $25, median $19, mode $20 (b) The median ($19), because the $65 is much higher than the rest and pulls the mean up. (The mode, $20, with a sensible reason is also reasonable.)