S01-test Mean Median Mode and Range: Test Pack

Total Marks

EDEXCEL 1ST0 · Calculator allowed · about 15 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The ages, in years, of 9 people at a birthday party are:

12, 14, 13, 12, 15, 12, 14, 16, 12

Write down the mode of these ages.

(Total for Question 1 is 1 mark)

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2 For each statement about averages, write down whether it is True or False.

(i) The mode of a list of numbers is always one of the numbers in the list. **(1)**

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(ii) The median of a list of numbers is always one of the numbers in the list. **(1)**

.....

(iii) The range measures how spread out a set of data is. **(1)**

.....

(iv) The mean of a set of data must always be a whole number. **(1)**

.....

(Total for Question 2 is 4 marks)

3 The number of ice creams sold by a seafront kiosk over 5 days was:

34, 41, 28, 39, 33

Work out the range of the number of ice creams sold.

(Total for Question 3 is 2 marks)

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4 The heights, in metres, of 5 sunflower plants were:

1.2, 1.45, 1.3, 1.5, 1.35

(a) Find the median height. **(2)**

(b) Calculate the mean height. **(2)**

(c) Work out the range of heights. **(1)**

(Total for Question 4 is 5 marks)

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5 A list of 8 numbers has a mean of 20. Two numbers are removed from the list. The mean of the remaining 6 numbers is 18.

Work out the mean of the two numbers that were removed.

(Total for Question 5 is 4 marks)

Mark scheme · S01-test Mean Median Mode and Range: Test Pack

Question 1

- **B1** 12 cao
- **Answer: 12**

Question 2

- (i) **B1** True cao
- **(i) Answer: True**
- (ii) **B1** False cao
- **(ii) Answer: False**
- (iii) **B1** True cao
- **(iii) Answer: True**
- (iv) **B1** False cao
- **(iv) Answer: False**

Question 3

- **M1** 41 - 28, oe (identifies largest and smallest values)
- **A1** 13 cao
- **Answer: 13**

Question 4

- (a) **M1** data in order: 1.2, 1.3, 1.35, 1.45, 1.5
- (a) **A1** 1.35 m cao
- **(a) Answer: 1.35 m**
- (b) **M1** 1.2 + 1.45 + 1.3 + 1.5 + 1.35 (= 6.8), oe
- (b) **A1** 1.36 m cao
- **(b) Answer: 1.36 m**
- (c) **B1** 0.3 m cao
- **(c) Answer: 0.3 m**

Question 5

- **M1** 8 x 20 (= 160), oe (original total)
- **M1** 6 x 18 (= 108), oe (remaining total)
- **M1** 160 - 108 (= 52), oe (dep on both previous method marks; total of the two removed numbers)
- **A1** 26 cao
- **Answer: 26**