# 2.7-2 Averages: Practice Set 2: 10-minute Pack

GL ASSESSMENT GL11PLUS-MATHS · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** Which of these is the median of the numbers 6, 14, 2, 20, 11, 17 and 8?

- ☐ A) 14
- ☐ B) 2
- ☐ C) 8
- ☐ D) 11
- ☐ E) 17

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**2** Show that the mean of 15, 22, 8, 19 and 11 is 15.

**(2)**

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**3** A delivery van travels 84 km in 2 hours, then a further 66 km in 1 hour. Calculate the average speed for the whole journey, in km/h.

**(3)**

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**4** A data set has the values 3, 3, 7, 10, 12. Which statement about this data set is true?

- ☐ A) mode > mean
- ☐ B) range = mean
- ☐ C) median = mode
- ☐ D) mean = median
- ☐ E) mode = range


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**5** Two dice are rolled 10 times and the sums recorded: 7, 9, 5, 8, 7, 10, 6, 7, 4, 7.

**(a)** State the modal sum. **(1)**

**(b)** Calculate the range of the sums. **(2)**

**6** A list of four numbers has a mean of 15. A fifth number, 25, is added to the list. Calculate the new mean of all five numbers.

**(3)**


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# Mark scheme · 2.7-2 Averages: Practice Set 2: 10-minute Pack

## Question 1

D) 11, cao **B1**

**Answer: D) 11**

## Question 2

sum of the five numbers shown = 75 **M1**

cso: 75 / 5 = 15, answer printed correctly derived **A1**

**Answer: 15 (shown)**

## Question 3

total distance = 84 + 66 = 150 km **M1**

total time = 2 + 1 = 3 hours **M1**

average speed = 50 km/h, cao (units required) **A1**

**Answer: 50 km/h**

## Question 4

D) mean = median, cao **B1**

**Answer: D) mean = median**

## Question 5

(a) mode = 7, cao **B1**

**(a) Answer: 7**

(b) identifies highest value (10) and lowest value (4) **M1**

(b) range = 6, cao **A1**

**(b) Answer: 6**

## Question 6

original total of the four numbers = 15 x 4 = 60 **M1**

new total after adding 25: 60 + 25 = 85 **M1**

new mean = 85 / 5 = 17, cao **A1**

**Answer: 17**


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