2.7 Averages: 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 In a school, Class A has 12 pupils with a mean test mark of 65. Class B has 8 pupils with a mean test mark of 70. Calculate the mean test mark for all 20 pupils in the two classes combined.

(4)

2 A list of five numbers has a mean of 9. One of the numbers, 21, is removed from the list. Calculate the mean of the remaining four numbers.

(3)

3 The table shows the number of pets owned by 20 pupils. Number of pets (x): 0, 1, 2, 3, 4. Frequency (f): 5, 8, 4, 2, 1.

(a) State the modal number of pets. **(1)**

(b) Calculate the mean number of pets per pupil. **(3)**

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Mark scheme · 2.7 Averages: 10-minute Pack

Question 1

total marks in Class A = 12 x 65 = 780	**M1**
total marks in Class B = 8 x 70 = 560	**M1**
combined total (1340) divided by combined number of pupils (20)	**M1**
combined mean = 67, cao	**A1**

Answer: 67

Question 2

total of the original five numbers = 9 x 5 = 45	**M1**
remaining total after removing 21: 45 - 21 = 24	**M1**
new mean = 24 / 4 = 6, cao	**A1**

Answer: 6

Question 3

(a) mode = 1, cao	**B1**

(a) Answer: 1

(b) correct values of fx: 0, 8, 8, 6, 4 summed to give 26	**M1**
(b) divides total fx by total frequency (20)	**M1**
(b) mean = 1.3 (oe 13/10), cao	**A1**

(b) Answer: 1.3

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