6.8 Grouped Data and the Estimated Mean: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The scores of 18 players in a game are: 20, 10, 15, 19, 15, 22, 23, 13, 17, 21, 24, 18, 14, 17, 12, 23, 24, 11.
Complete a grouped frequency table using the class intervals 10 to 14, 15 to 19 and 20 to 24.

(3)

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2 The grouped frequency table shows the mass in kg of 40 people. 20 to 29: 5; 30 to 39: 7; 40 to 49: 15; 50 to 59: 9; 60 to 69: 4.
Write down the modal class.

(1)

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3 The table shows the number of pets for a group of people.
number of pets = 3: frequency 10; number of pets = 4: frequency 12; number of pets = 5: frequency 2; number of pets = 6: frequency 8.
Work out the number of people with a value greater than the mean.

(4)

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Mark scheme · 6.8 Grouped Data and the Estimated Mean: 10-minute Pack

Question 1

tally or count of at least one class	**M1**
two frequencies correct	**A1**
10 to 14: 5, 15 to 19: 6, 20 to 24: 7 cao	**A1**

Answer: **10 to 14: 5, 15 to 19: 6, 20 to 24: 7**

Question 2

40 to 49 cao	**B1**

Answer: **40 to 49**

Question 3

fx column	**M1**
mean = 136 ÷ 32	**M1**
identifies the values above the mean	**M1**
10 cao	**A1**

Answer: **10**

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