2.7-3 Averages and Data Handling: Practice Set 3: 10-minute Pack

Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Here is part of a bus timetable for the number 24 bus, which runs from Hawksmoor to Fenbridge, calling at Thorncliffe. Hawksmoor departs: 08:15, 08:45, 09:20, 10:05. Thorncliffe: 08:27, 08:57, 09:32, 10:17. Fenbridge arrives: 08:50, 09:20, 09:55, 10:40.

(a) How long does the 08:15 bus from Hawksmoor take to reach Fenbridge? **(2)**

.....

(b) Nia arrives at Thorncliffe at 09:10. What is the earliest bus she can catch, and at what time does it leave? **(1)**

(c) How many minutes does Nia have to wait at Thorncliffe for this bus? **(2)**

.....

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2 60 pupils were asked to choose their favourite ice lolly from three flavours, or to say 'none of these'. The table shows some of the results. Flavour: Strawberry, Orange, Blackcurrant, None of these. Number of pupils: 22, 15, 14, ?.
Work out how many pupils chose 'none of these'.

(3)

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3 Rhys wants to record how his height changed each year from age 5 to age 11. Which type of graph would be most suitable for displaying this data?
A) Pie chart B) Line graph C) Pictogram D) Tally chart

(1)

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4 Zainab travels by train from Ashby to Norton, changing trains at Bridgeford. The train from Ashby departs at 09:05 and arrives at Bridgeford at 09:38. The connecting train departs Bridgeford at 09:50 and arrives at Norton at 10:22.
Work out the total time, including the wait at Bridgeford, from Zainab leaving Ashby to arriving at Norton.

(3)

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Mark scheme · 2.7-3 Averages and Data Handling: Practice Set 3: 10-minute Pack

Question 1

(a) correct method, e.g. 08:15 to 08:50	**M1**
(a) 35 minutes cao	**A1**
(a) Answer: 35 minutes	
(b) 09:32 cao	**B1**
(b) Answer: 09:32	
(c) correct method, e.g. 09:10 to 09:32	**M1**
(c) 22 minutes cao ft from part (b)	**A1**
(c) Answer: 22 minutes	

Question 2

22 + 15 + 14 = 51 (or a valid attempt to sum the known values)	**M1**
60 - 51 (correct method to find the missing value)	**M1**
9 cao	**A1**
Answer: 9	

Question 3

B) Line graph cao	**B1**
Answer: B) Line graph	

Question 4

at least one correct leg time found, e.g. Ashby to Bridgeford = 33 minutes	**M1**
combines all three parts of the journey correctly (33 + 12 + 32), or finds total elapsed time from 09:05 to 10:22 directly	**M1**
1 hour 17 minutes oe 77 minutes cao	**A1**
Answer: 1 hour 17 minutes (77 minutes)	

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