2.47-4 Mixed Problem-Solving Paper D: 10-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The temperature at 6am was -4C. By midday it had risen by 11C. By 9pm it had fallen by 8C from the midday temperature. What was the temperature at 9pm?

(2)

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2 A market trader packs apples into crates that each hold 35 apples. She has 482 apples to pack, and each crate must not be overfilled. What is the least number of crates needed, and how many spare spaces will be left in the final crate?

(3)

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3 A train travels 180 km in 2 hours 30 minutes at a constant speed. At this speed, how far would it travel in 4 hours?

(3)

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4 Nadia buys 3 packets of crisps at £0.45 each. She pays with a £2 coin. How much change does she receive?

(2)

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5 A charity shop has 81 books on a shelf. 2/9 of the books are non-fiction. How many of the books are non-fiction?

(2)

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Mark scheme · 2.47-4 Mixed Problem-Solving Paper D: 10-minute Pack

Question 1

-4 + 11 = 7 (midday temperature) found	**M1**
-1C cao ft	**A1**

Answer: -1C

Question 2

attempts 482 / 35, e.g. 35 * 13 = 455	**M1**
identifies a remainder of 27 apples (482 - 455), which still need a crate	**dM1**
14 crates and 8 spare spaces both correct cao	**A1**

Answer: 14 crates, with 8 spare spaces

Question 3

2 hours 30 minutes = 2.5 hours	**M1**
180 / 2.5 = 72 km/h (speed) found	**M1**
288 km cao	**A1**

Answer: 288 km

Question 4

3 * 0.45 = 1.35 found	**M1**
£0.65 cao	**A1**

Answer: £0.65

Question 5

81 / 9 = 9 found	**M1**
18 cao	**A1**

Answer: 18 books

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