2.47-4 Mixed Problem-Solving Paper D: Test Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 15 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Freddie has 45 stickers. He gives 8 stickers to his sister and then buys 12 more stickers from a shop. How many stickers does Freddie have now?

(2)

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2 A bottle of squash concentrate is mixed with water in a fixed ratio. To make 8 glasses of drink, 150 ml of concentrate is needed. How much concentrate is needed to make 28 glasses, using the same ratio?

(3)

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3 A shop reduces the price of a jacket from £45 by 20% in a sale. A customer also has a voucher for a further £3 off the sale price. What is the final price of the jacket?

(3)

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4 A cinema sells tickets for £8.50 each. On a Saturday evening, 3/4 of the 240 seats in the cinema are sold. The cinema also sells 60 tubs of popcorn at £3.20 each during the showing. What is the total amount of money taken by the cinema for tickets and popcorn at this showing?

(4)

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5 A film starts at 19:20 and finishes at 21:05. How long, in minutes, does the film last?

(2)

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6 The rainfall recorded over 4 weeks was 12 mm, 18 mm, 9 mm and 25 mm. What is the range of the rainfall?

(2)

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

Question 1

45 - 8 = 37 found	**M1**
49 cao	**A1**

Answer: 49 stickers

Question 2

28 / 8 = 3.5 (scale factor) found	**M1**
150 * 3.5 (complete correct method)	**M1**
525 ml cao	**A1**

Answer: 525 ml

Question 3

10% of 45 = 4.50, so 20% = £9 (discount) found	**M1**
45 - 9 = £36 (sale price) found	**M1**
£33 cao ft	**A1**

Answer: £33

Question 4

3/4 * 240 = 180 (seats sold) found	**M1**
180 * 8.50 = £1530 (ticket revenue) found	**M1**
60 * 3.20 = £192 (popcorn revenue) found	**M1**
£1722 cao ft	**A1**

Answer: £1722

Question 5

19:20 to 21:05 split into 1 hour (to 20:20) plus 45 minutes (to 21:05), or equivalent	**M1**
105 minutes cao	**A1**

Answer: 105 minutes

Question 6

identifies the highest (25 mm) and lowest (9 mm) values	**M1**
16 mm cao	**A1**

Answer: 16 mm

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