2.56 Non-Calculator Reasoning Paper A: 10-minute Pack

Total Marks

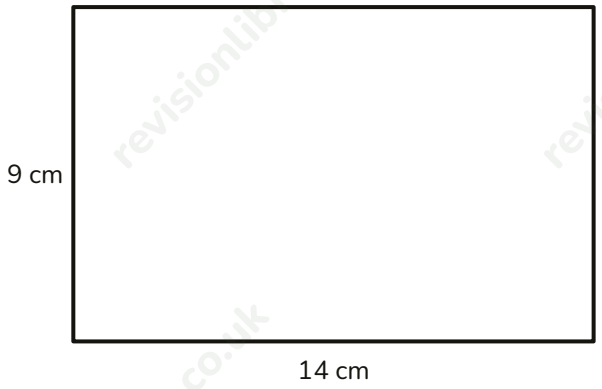
GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A rectangle has length 14 cm and width 9 cm. Work out its perimeter.

Diagram NOT accurately drawn



(2)

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2 Here are the first four terms of a sequence: 5, 11, 17, 23. Find the 8th term of the sequence.

(2)

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3 Work out 2/3 of 3/4 of 60.

(2)

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4 A cyclist travels 18 km in 45 minutes at a constant speed. Work out her speed in km/h.

(3)

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5 N is a whole number. N is greater than 40 and less than 100. N is a multiple of 6, a multiple of 8 and a multiple of 9. Find N.

(3)

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Mark scheme · 2.56 Non-Calculator Reasoning Paper A: 10-minute Pack

Question 1

14 + 9 = 23, or 2 x 14 + 2 x 9 (oe)	**M1**
46 cm cao	**A1**

Answer: 46 cm

Question 2

identifies the term-to-term rule +6 and a correct method to reach the 8th term, e.g. 5 + 7 x 6 (oe)	**M1**
47 cao	**A1**

Answer: 47

Question 3

3/4 of 60 = 45 (oe)	**M1**
30 cao	**A1**

Answer: 30

Question 4

45 minutes = 3/4 hour (oe)	**M1**
18 / (3/4), or equivalent method such as 18 / 45 x 60 (oe)	**M1**
24 km/h cao	**A1**

Answer: 24 km/h

Question 5

finds the lowest common multiple of 6, 8 and 9 (= 72), or lists multiples of each (oe)	**M1**
identifies multiples of 72 between 40 and 100 (oe)	**M1**
72 cao	**A1**

Answer: 72

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