2.56-2 Non-Calculator Reasoning Paper B: 10-minute Pack

Total Marks

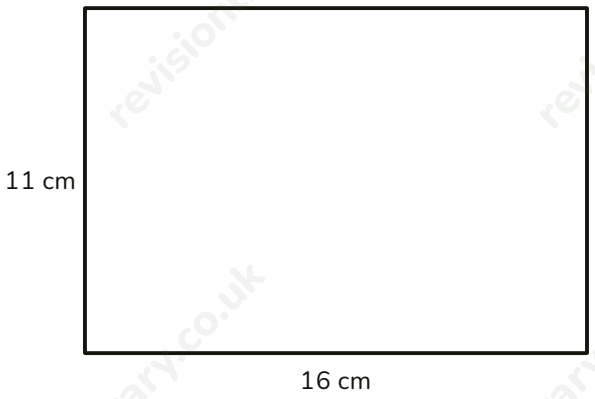
GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A rectangle has length 16 cm and width 11 cm. Work out its perimeter.

Diagram NOT accurately drawn



(2)

2 Here are the first four terms of a sequence: 8, 15, 22, 29. Find the 9th term of the sequence.

(2)

3 Work out 3/5 of 5/6 of 72.

(2)

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4 A jogger runs 12 km in 50 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 100 and less than 150. N is a multiple of 4, a multiple of 6 and a multiple of 10. Find N.

(3)

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Mark scheme · 2.56-2 Non-Calculator Reasoning Paper B: 10-minute Pack

Question 1

16 + 11 = 27, or 2 x 16 + 2 x 11 (oe)	**M1**
54 cm cao	**A1**

Answer: 54 cm

Question 2

identifies the term-to-term rule +7 and a correct method to reach the 9th term, e.g. 8 + 8 x 7 (oe)	**M1**
64 cao	**A1**

Answer: 64

Question 3

5/6 of 72 = 60 (oe)	**M1**
36 cao	**A1**

Answer: 36

Question 4

50 minutes = 5/6 hour (oe)	**M1**
12 / (5/6), or equivalent method such as 12 / 50 x 60 (oe)	**M1**
14.4 km/h cao	**A1**

Answer: 14.4 km/h

Question 5

finds the lowest common multiple of 4, 6 and 10 (= 60), or lists multiples of each (oe)	**M1**
identifies multiples of 60 between 100 and 150 (oe)	**M1**
120 cao	**A1**

Answer: 120

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