8.1 Reasoning: Measurement and Geometry: 10-minute Pack

STA KS2 National Curriculum Mathematics - STA Reasoning Test Framework · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A rectangular allotment measures 12m by 7m. Calculate the perimeter of the allotment.

(2)

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2 A rectangular picture frame has an area of 96 cm^2 and a perimeter of 40cm. By trying whole-number pairs of factors of 96, find the length and the width of the frame.

(4)

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3 Convert 21,000 m to km.

Answer: ___ km

(1)

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4 A lesson finishes at 21:57 after taking 3 hours 13 minutes.

What time did it start? Write your answer as a 24-hour clock time.

Answer: ___

(2)

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Mark scheme · 8.1 Reasoning: Measurement and Geometry: 10-minute Pack

Question 1

(12+7) x 2 oe, or 12+12+7+7	M1
38m cao	A1

Answer: **38m**

Question 2

40 / 2 = 20 (length + width) oe	M1
lists factor pairs of 96 systematically, e.g. 1x96, 2x48, 3x32, 4x24, 6x16, 8x12	M1
identifies the pair that sums to 20 (8 and 12)	M1
length = 12cm, width = 8cm cao (both required)	A1

Answer: **Length = 12cm, width = 8cm**

Question 3

21 km cao	B1

Answer: **21 km**

Question 4

subtracts hours then minutes	M1
18:44 cao	A1

Answer: **18:44**

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