2.11-3 Perimeter, Area and Volume: Practice Set 3: Test Pack

Total Marks

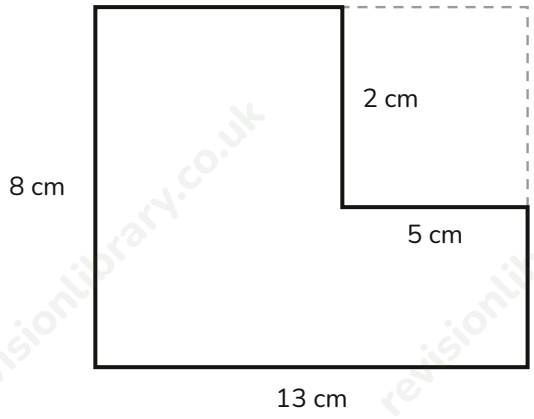
GL ASSESSMENT GL · Calculators not allowed · about 15 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The diagram shows an L-shaped tile pattern formed from a 13 cm by 8 cm rectangle with a 5 cm by 2 cm rectangle removed from the top right corner (dimensions shown are the outer rectangle sides and the notch removed; not drawn to scale). Calculate the area of the shape.

Diagram NOT accurately drawn

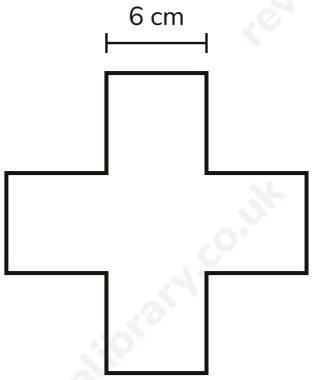


(3)

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2 The diagram shows a cross (plus-sign) shape made from five identical squares, each with side length 6 cm, arranged so one square is in the centre with one square attached to each of its four sides. Calculate the perimeter of the shape.

Diagram NOT accurately drawn



(not to scale)

(2)

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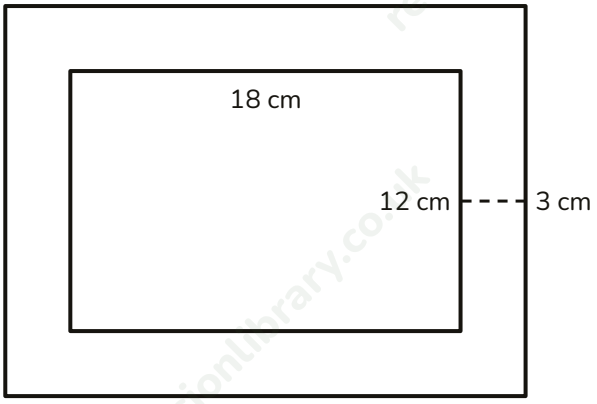
3 A rectangular sticker measures 50 mm by 20 mm. Calculate the area of the sticker in cm^2.

(2)

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4 A rectangular photograph measures 18 cm by 12 cm. It is mounted on a card with a border of uniform width 3 cm all the way around it, as shown in the diagram. Calculate the area of the border (mount) only.

Diagram NOT accurately drawn



(4)

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5 The length of a rectangle is 4 cm more than its width. The perimeter of the rectangle is 56 cm. Calculate the area of the rectangle.

(4)

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Mark scheme · 2.11-3 Perimeter, Area and Volume: Practice Set 3: Test Pack

Question 1

13 x 8 (=104) oe	**M1**
5 x 2 (=10) oe	**M1**
94 cm² cao (ft 104 - their notch area)	**A1**

Answer: 94 cm^2

Question 2

12 x 6 oe (twelve equal outer edges)	**M1**
72 cm cao	**A1**

Answer: 72 cm

Question 3

converts to 5 cm and 2 cm oe	**M1**
10 cm² cao	**A1**

Answer: 10 cm^2

Question 4

outer dimensions found: 24 cm by 18 cm	**M1**
outer area 24 x 18 = 432 cm²	**M1**
photograph area 18 x 12 = 216 cm²	**M1**
216 cm² cao (ft 432 - their photograph area)	**A1**

Answer: 216 cm^2

Question 5

sets up 2 x (w + w + 4) = 56 oe, using length = width + 4	**M1**
solves to width = 12 cm oe	**M1**
length = 16 cm ft	**M1**
192 cm² cao	**A1**

Answer: 192 cm^2

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