2.11-2 Perimeter, Area and Volume: Practice Set 2: Test Pack

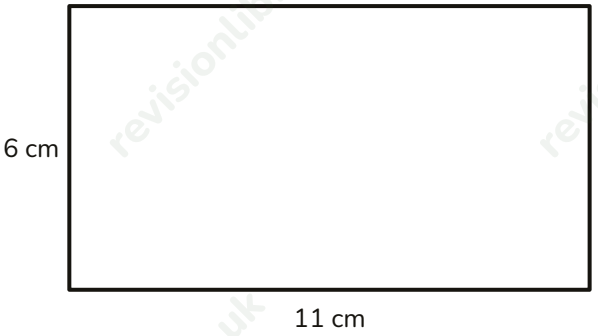
GL ASSESSMENT GL · Calculators not allowed · about 15 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A rectangle has length 11 cm and width 6 cm. Calculate the perimeter of the rectangle.

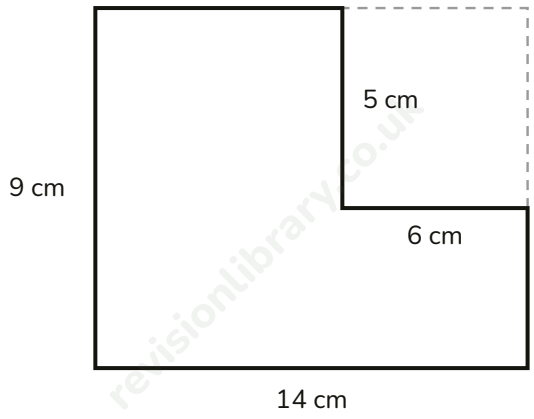


(2)

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2 The diagram shows an L-shaped patio formed from a 14 cm by 9 cm rectangle with a 6 cm by 5 cm rectangle removed from the top right corner (dimensions shown are the outer rectangle sides and the notch removed; not drawn to scale).

Diagram NOT accurately drawn



(a) Calculate the perimeter of the L-shape. **(3)**

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(b) Calculate the area of the L-shape. **(3)**

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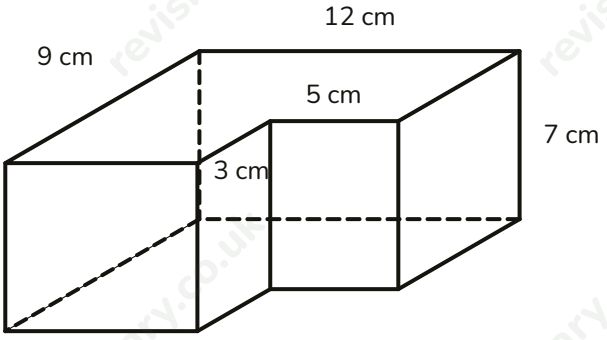
3 A rectangular noticeboard has a length of 3.2 m and a width of 65 cm. Calculate the perimeter of the noticeboard in metres.

(3)

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4 A solid cuboid measures 12 cm by 9 cm by 7 cm. A smaller cuboid measuring 5 cm by 3 cm by 7 cm is cut out of one vertical edge, running the full height of the solid. Calculate the volume of the remaining solid.

Diagram NOT accurately drawn



Not to scale

(4)

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Mark scheme · 2.11-2 Perimeter, Area and Volume: Practice Set 2: Test Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

correct method, e.g. 11 + 6 + 11 + 6 or 2 * (11 + 6)	**M1**
34 cm cao	**A1**

Answer: 34 cm

Question 2

(a) missing lengths found: 9 - 5 = 4 cm and 14 - 6 = 8 cm	**M1**
(a) all six sides added: 14 + 4 + 6 + 5 + 8 + 9	**M1**
(a) 46 cm cao	**A1**

(a) Answer: 46 cm

(b) large rectangle area 14 * 9 = 126 cm²	**M1**
(b) removed rectangle area 6 * 5 = 30 cm²	**M1**
(b) 96 cm² cao (ft 126 - their removed area)	**A1**

(b) Answer: 96 cm^2

Question 3

65 cm converted to 0.65 m	**M1**
2 * (3.2 + 0.65) seen (oe)	**M1**
7.7 m cao	**A1**

Answer: 7.7 m

Question 4

large cuboid volume 12 * 9 * 7 = 756 cm³	**M1**
removed cuboid volume 5 * 3 * 7 = 105 cm³	**M1**
756 - 105 seen (ft)	**M1**
651 cm³ cao	**A1**

Answer: 651 cm^3

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