4.12 Surface Area: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

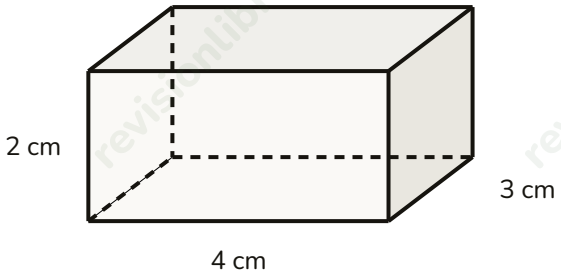
Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out the surface area of a cuboid with length 4 cm, width 3 cm and height 2 cm.

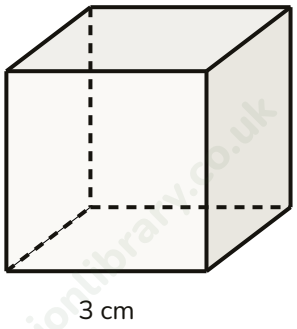
Diagram NOT accurately drawn



(Total for Question 1 is 1 mark)

2 A small wooden cube has side 3 cm. Find the area of two faces of the cube.

Diagram NOT accurately drawn

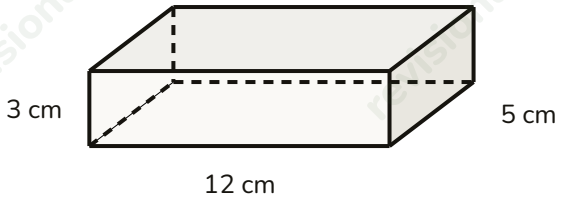


(Total for Question 2 is 1 mark)

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3 A cuboid measures 12 cm by 5 cm by 3 cm. Calculate its surface area.

Diagram NOT accurately drawn

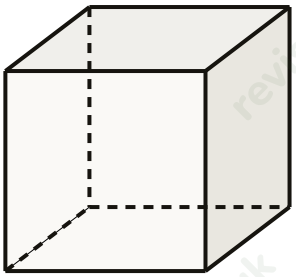


(Total for Question 3 is 2 marks)

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4 A cube has side length 4 cm. Work out the total surface area of the cube.

Diagram NOT accurately drawn

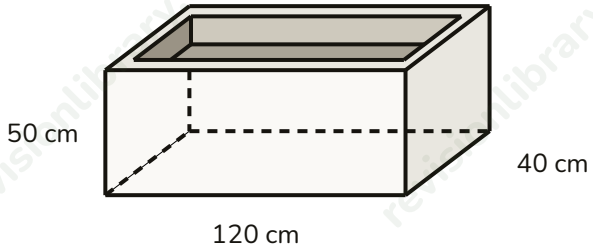


(Total for Question 4 is 1 mark)

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5 Priya makes an open-topped rectangular planter (no lid) with length 120 cm, width 40 cm and height 50 cm. Work out the total surface area of the planter, including the base but not the open top.

Diagram NOT accurately drawn



(Total for Question 5 is 3 marks)

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Mark scheme · 4.12 Surface Area: 10-minute Pack

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

Question 1

52 cm² cao	**B1**

Answer: 52 cm^2

Question 2

18 cm² cao	**B1**

Answer: 18 cm^2

Question 3

correct method: 2(lw + lh + wh) or calculation of each pair of faces shown	**M1**
222 cm² cao	**A1**

Answer: 222 cm^2

Question 4

96 cm² cao	**B1**

Answer: 96 cm^2

Question 5

base area 120 x 40 (= 4800) seen	**M1**
complete method for the four side faces, e.g. 2(120x50) + 2(40x50) (= 16000)	**M1**
20800 cm² cao	**A1**

Answer: 20800 cm^2

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