4.17 Plans and Elevations: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

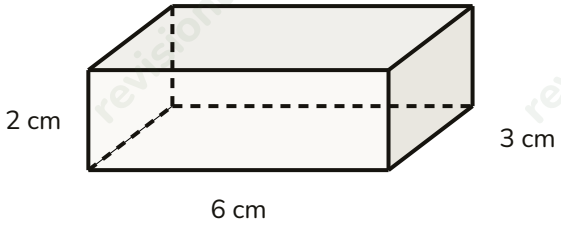
Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A cuboid has length 6 cm, width 3 cm and height 2 cm.
Write down the shape of the top elevation (the view from above).

Diagram NOT accurately drawn



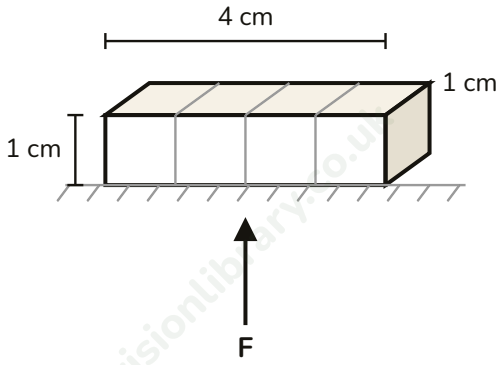
(Total for Question 1 is 1 mark)

2 Which elevation normally shows the height and the width of an object?

(Total for Question 2 is 1 mark)

© Revision Library | revisionlibrary.co.uk

3 The diagram shows a solid made from four identical 1 cm cubes joined edge-to-edge in a single straight row. Draw the front elevation of the solid, as viewed from arrow F, and state its dimensions.



(Total for Question 3 is 2 marks)

---

4 A solid has a front elevation that is 8 cm wide and 6 cm high. The side elevation is 5 cm wide and 6 cm high. Work out the size of the plan (give length and width).

(Total for Question 4 is 2 marks)

© Revision Library | revisionlibrary.co.uk

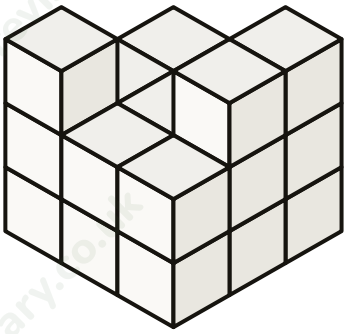
5 A solid has stacks on a 2 by 2 grid with heights (in unit cubes) Front-left 2, Front-right 1, Back-left 1, Back-right 1. How many unit cubes make up the solid in total?

(Total for Question 5 is 1 mark)

---

6 A solid is made from 1 cm cubes on a 3 by 3 base. The numbers show how many cubes are in each stack, with the columns listed from left to right.
Front row: 3, 2, 2
Middle row: 2, 2, 3
Back row: 2, 1, 3
The front elevation is the view from the front. How many squares are in the front elevation?

Diagram NOT accurately drawn



(Total for Question 6 is 2 marks)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 4.17 Plans and Elevations: 10-minute Pack

Question 1

rectangle cao **B1**

Answer: Rectangle (6 cm by 3 cm).

Question 2

front elevation cao **B1**

Answer: Front elevation (it shows height and width).

Question 3

correct outline drawn: a row of 4 unit squares (rectangle 4 cm by 1 cm) **B1**

correct dimensions stated, 4 cm by 1 cm oe **B1**

Answer: Rectangle 4 cm long by 1 cm high (a row of four 1 cm squares).

Question 4

identify plan shows the two horizontal dimensions: 8 cm and 5 cm oe **M1**

8 cm by 5 cm cao **A1**

Answer: Plan dimensions are 8 cm by 5 cm (length 8 cm, width 5 cm).

Question 5

5 cao **B1**

Answer: 5 (2 + 1 + 1 + 1 = 5 unit cubes).

Question 6

tallest stack in each column: 3, 2, 3 **M1**

8 **A1**

Answer: 8

© Revision Library | revisionlibrary.co.uk