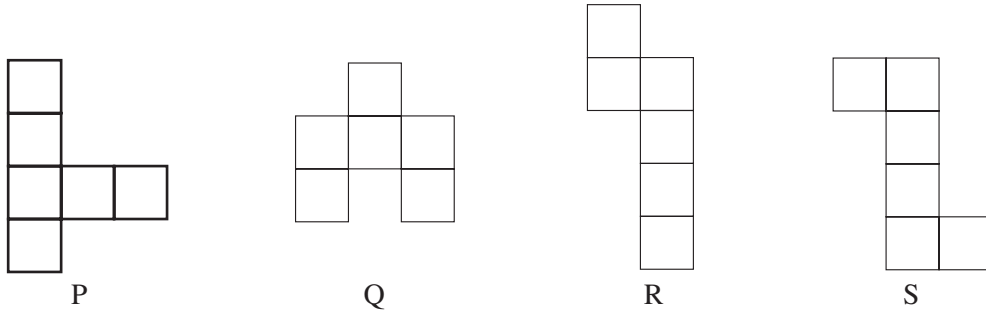


UNIT 12 Solids

CSEC Revision Test

1.

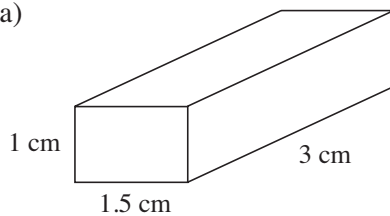


Which of these nets can be folded to make a cube?

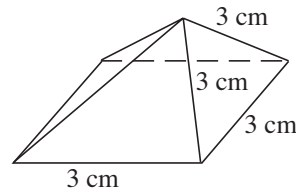
(4 marks)

2. Draw an accurate net for the following two shapes:

(a)

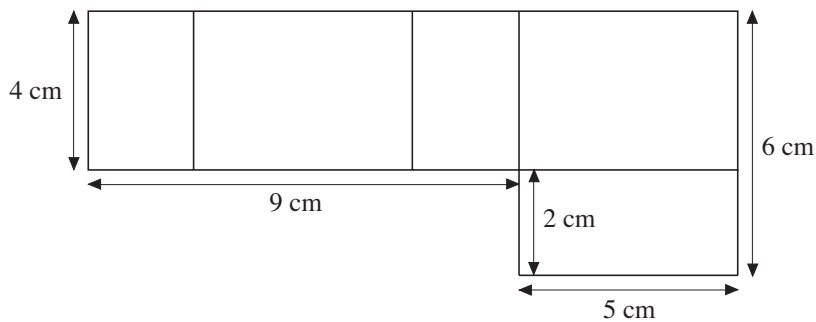


(b)



(4 marks)

3. The diagram below is the net of a small open box, with no top face.

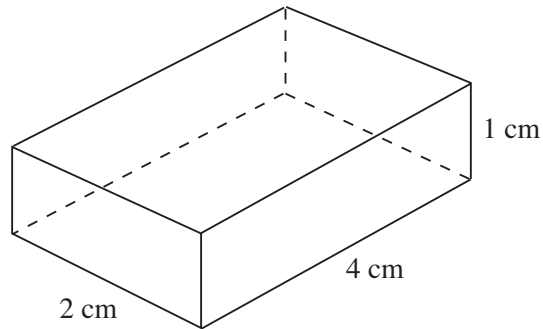


- (a) Find the perimeter of the net. (2 marks)
- (b) Calculate the area of the net. (2 marks)
- (c) Add one more rectangle in a suitable position to change the diagram above to the net of a closed box. (2 marks)
- (d) Write down the length, width and height of the box (in any order). (2 marks)
- (e) Calculate the volume of the box. (2 marks)

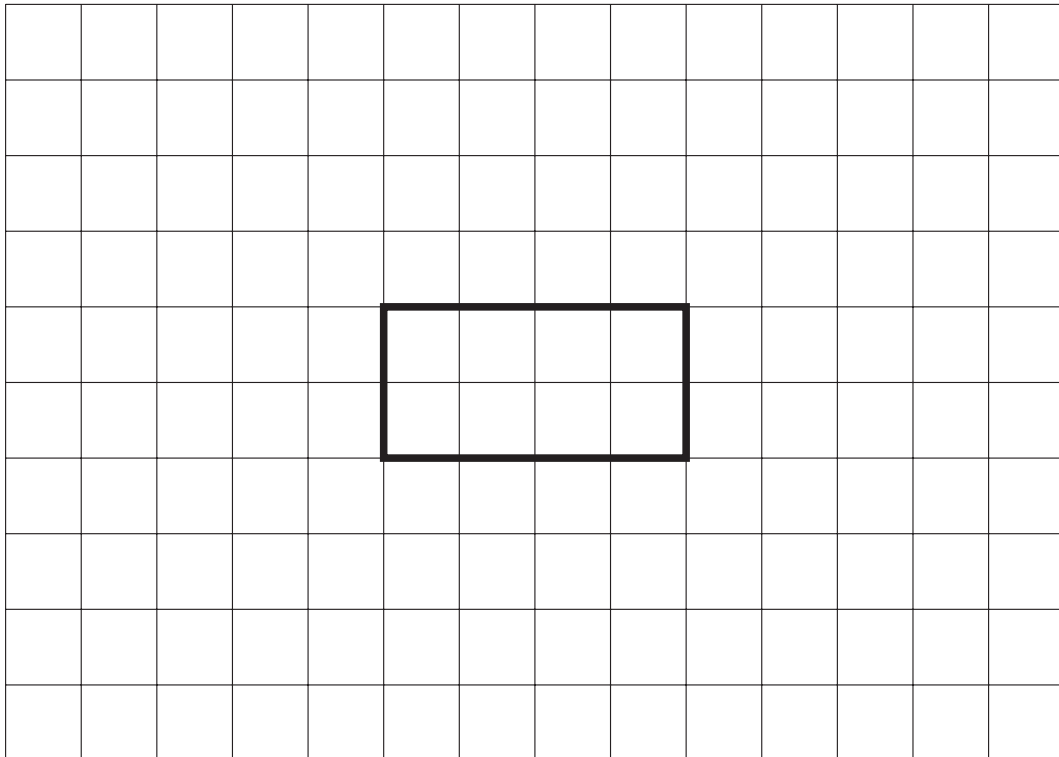
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4. The diagram shows a cuboid 4 cm by 2 cm by 1 cm.



On a copy of the following centimetre grid, complete a net of the cuboid.



Each square on grid represents 1 cm^2

(3 marks)

UNIT 12 *Solids***CSEC Revision Test**

5. A cuboid has sides of lengths 4 cm, 6 cm and 8 cm.

Make an accurate 3-D drawing of the cuboid on a grid like the one below.



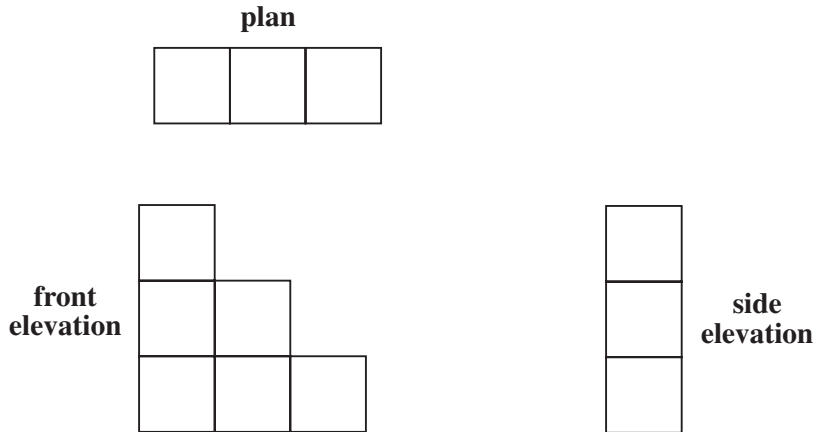
Each square on grid represents 1 cm^2

(3 marks)

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6. Here are the plan, front elevation and side elevation of a 3-D shape.



(a) Draw a sketch of the 3D shape. (2 marks)

Here is a sketch of a different 3D shape.
The shape is a cylinder with a cone on top.

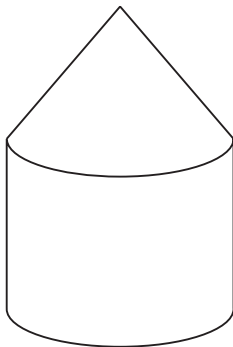


Diagram NOT accurately drawn.

(b) Sketch the front elevation of this 3D shape. (2 marks)

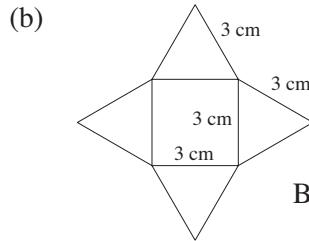
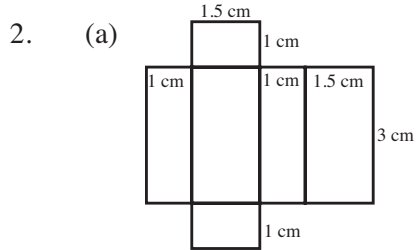
TOTAL MARKS: 28

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ANSWERS

1. S (-1 for each error) B4 (4 marks)

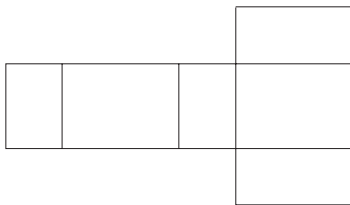


B2 B2 (4 marks)

3. (a) perimeter = $4 + 9 + 2 + 5 + 6 + 14 = 40$ cm M1 A1

(b) area = $(4 \times 14) + (2 \times 5) = 66$ M1 A1

(c)



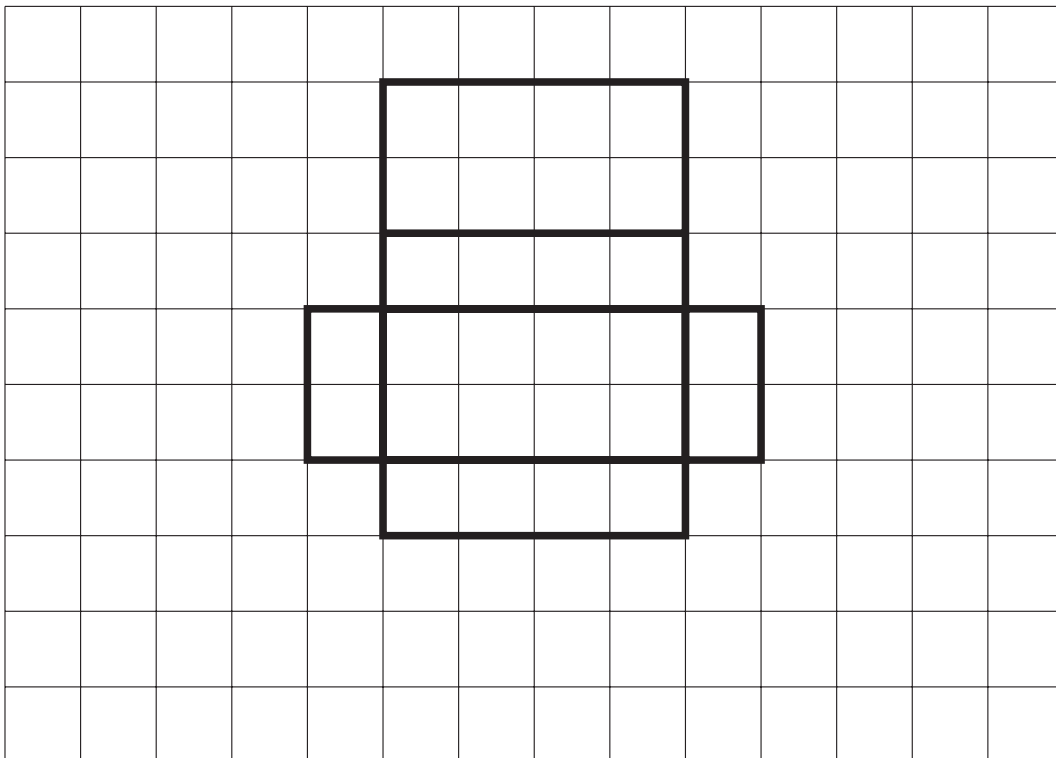
(or equivalent)

B2

(d) 2 cm, 4 cm, 5 cm B2

(e) volume = $2 \times 4 \times 5 = 40$ cm³ M1 A1 (10 marks)

4. For example,

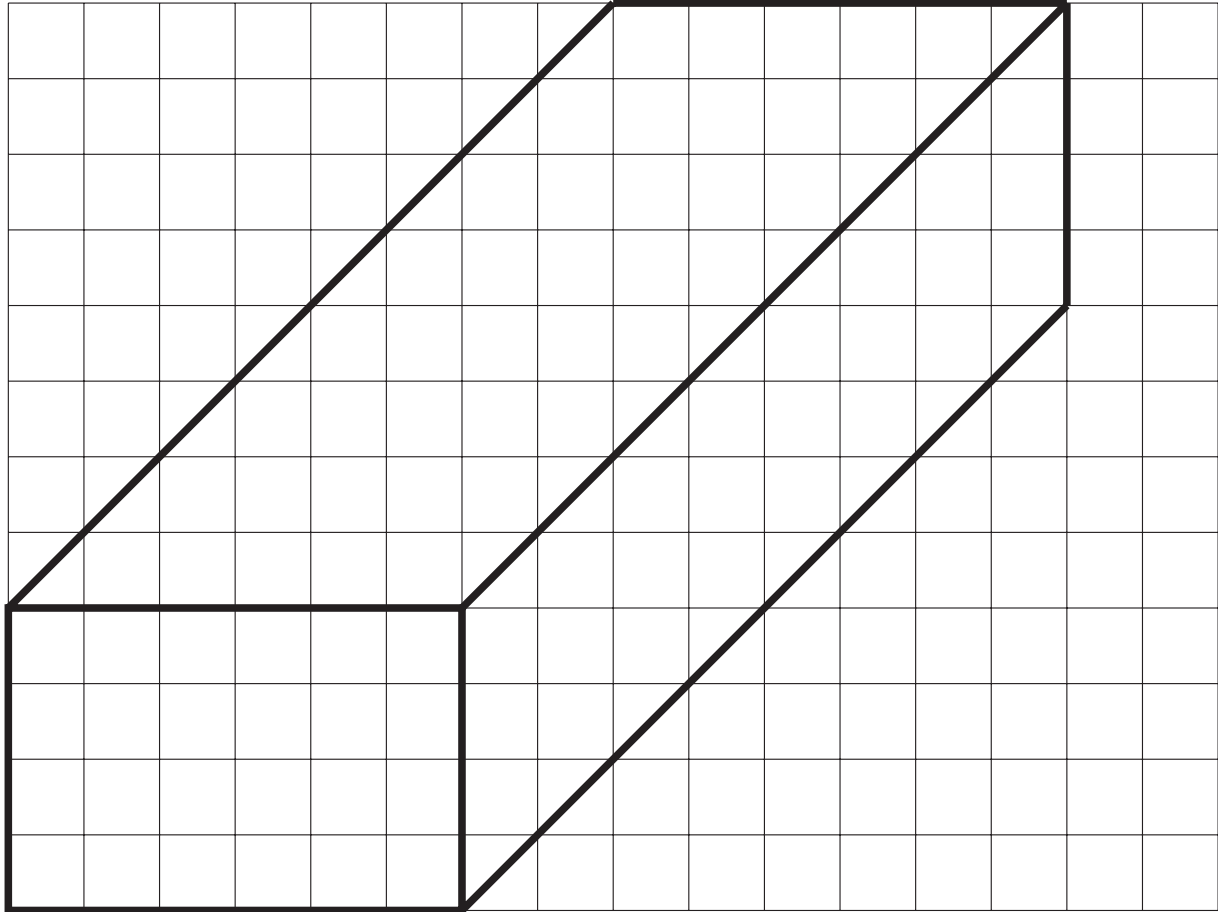


(3 marks)

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CSEC Revision Test
ANSWERS

5.

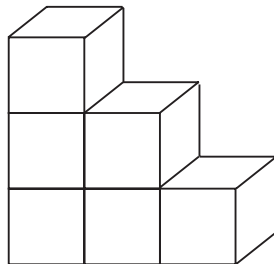


Each square on grid represents 1 cm²

B1 B1 B1

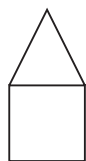
(3 marks)

6. (a)



B2

(b)



B2

(4 marks)

(TOTAL MARKS: 28)