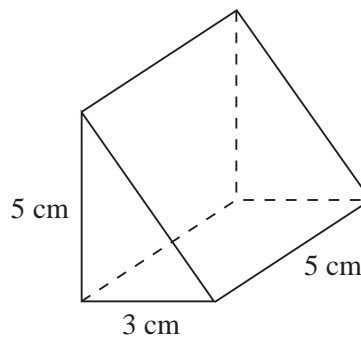


UNIT 6 *Nets and Surface Area***Extra Exercises 6.1**

1. Draw a parallelogram with sides of lengths 8 cm and 6 cm and angles of 60° and 120° .
2. A kite has sides of lengths 3 cm and 6 cm. The angle between the two shortest sides is 50° . Draw the kite.
3. Draw an isosceles triangle with a base of length 6 cm and two equal sides of length 8 cm.
4. An isosceles triangle has sides of lengths 6 cm, 6 cm and 5 cm.
 - (a) Draw the triangle.
 - (b) A line is drawn parallel to the 5 cm side, cutting the triangle into two different shapes. What are these shapes called?

UNIT 6 *Nets and Surface Area***Extra Exercises 6.2**

1. On isometric paper, draw a cuboid with sides of lengths 4 cm, 3 cm and 5 cm.
2. Three 3 cm cubes are placed side by side to form a cuboid. Draw this cuboid on isometric paper.
3. Draw the following prism on isometric paper:

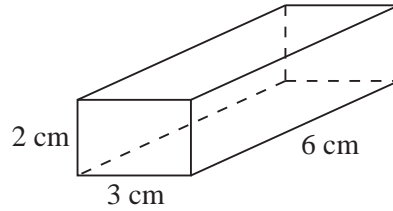


4. On plain paper, draw a 5 cm cube.
5. A prism has a cross-section that is an isosceles triangle, with sides of lengths 6 cm, 6 cm and 4 cm. The length of the prism is 5 cm. Draw the prism on plain paper.

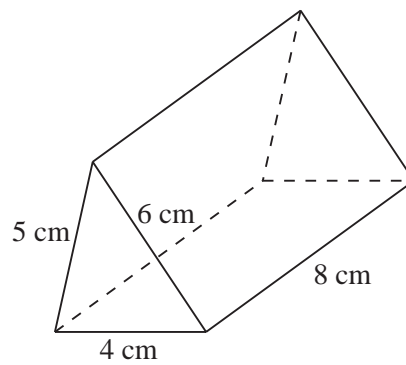
UNIT 6 *Nets and Surface Area*

Extra Exercises 6.3

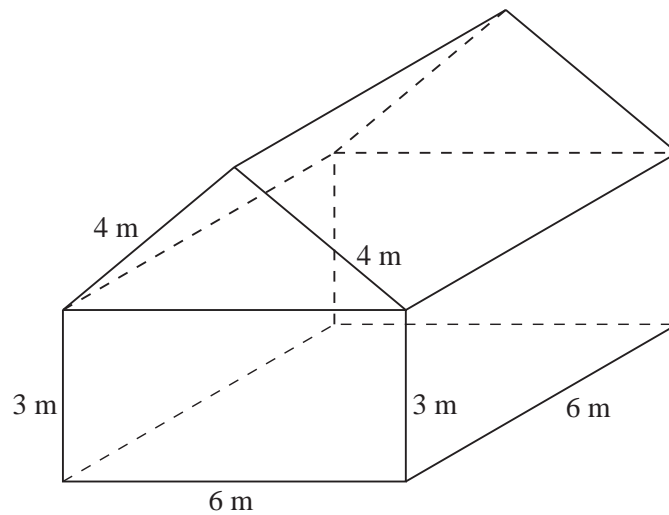
1. Draw the plan and elevations of the following cuboid:



2. Draw the plan and elevations of the following prism:



3. Use a scale of 1 cm to 1 m to draw the plan and elevations of the following shed:

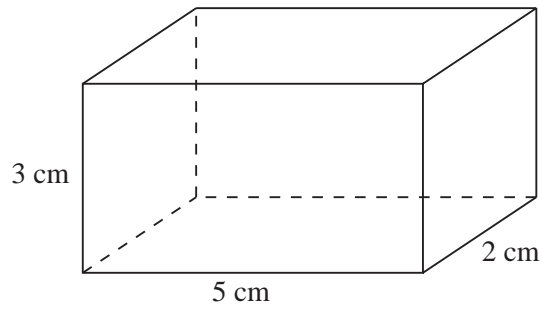


4. Draw a plan and elevations of a can of baked beans.

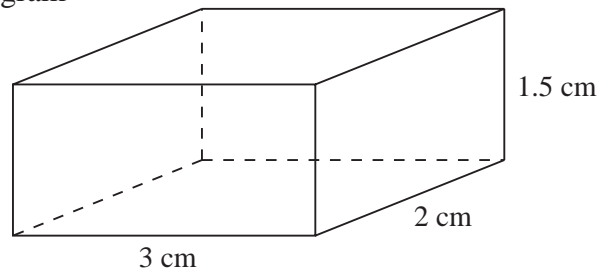
UNIT 6 *Nets and Surface Area*

Extra Exercises 6.4

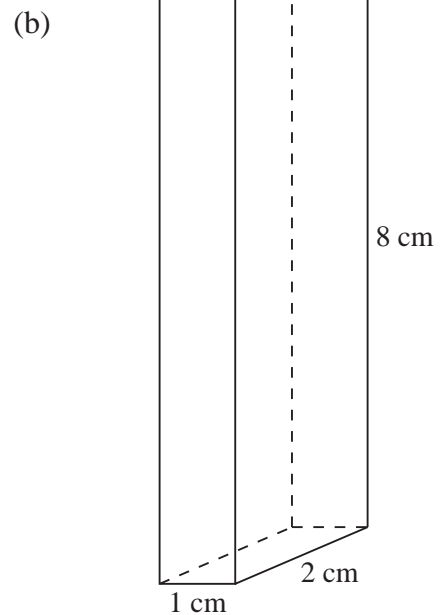
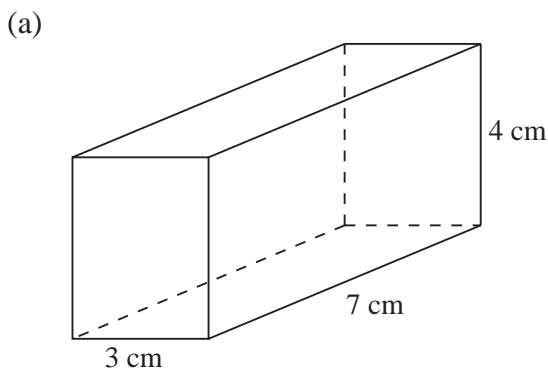
1. Calculate the surface area of a cube with sides of length 7 cm.
2. Draw a net for the following cuboid, and calculate its surface area:



3. The box shown in the diagram has no top:



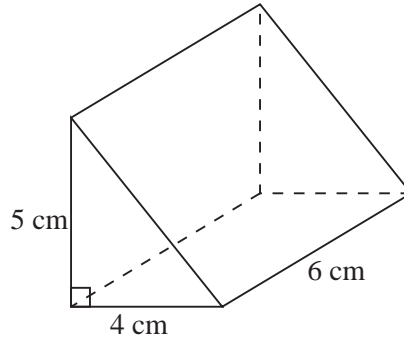
- (a) Draw a net for the box.
 - (b) What is the area of card needed to make the box (excluding tabs)?
4. Calculate the surface area of each of the following cuboids:



UNIT 6 *Nets and Surface Area*

Extra Exercises 6.5

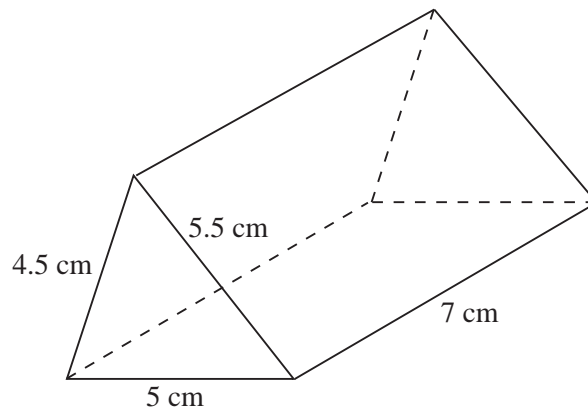
1. (a) Draw a net for the following prism:



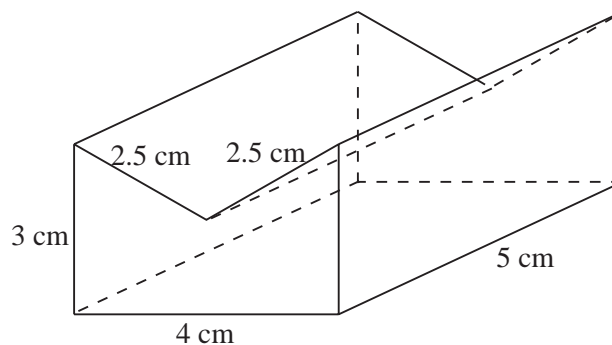
- (b) Calculate the surface area of the prism.

2. A pyramid has a base that is a square with sides of length 5 cm. The sloping faces of the pyramid are isosceles triangles with sides of lengths 6 cm, 6 cm and 5 cm. Draw the net of the pyramid.

3. Draw a net for the following prism:

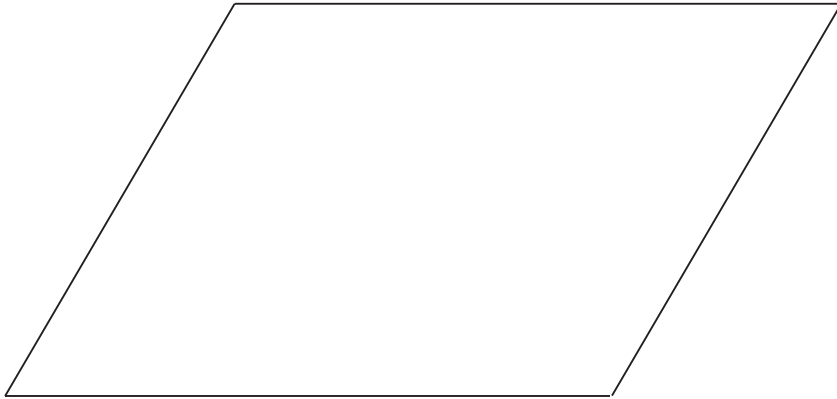


4. Draw a net for the following prism:

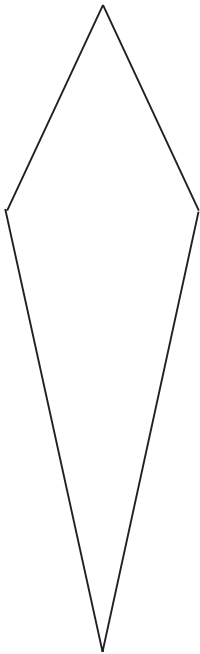


Extra Exercises 6.1 Answers

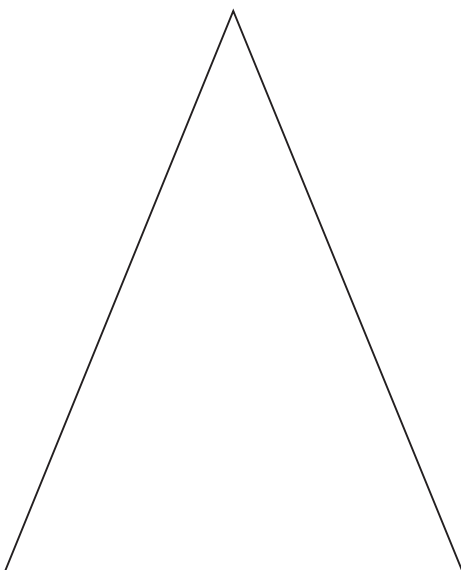
1.



2.

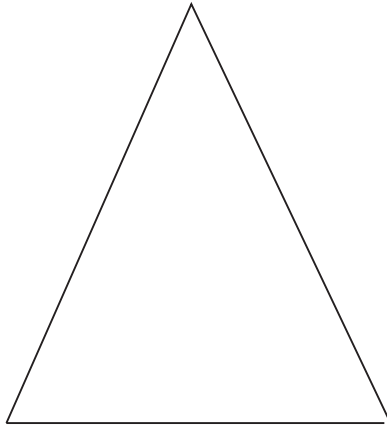


3.



Extra Exercises 6.1 Answers

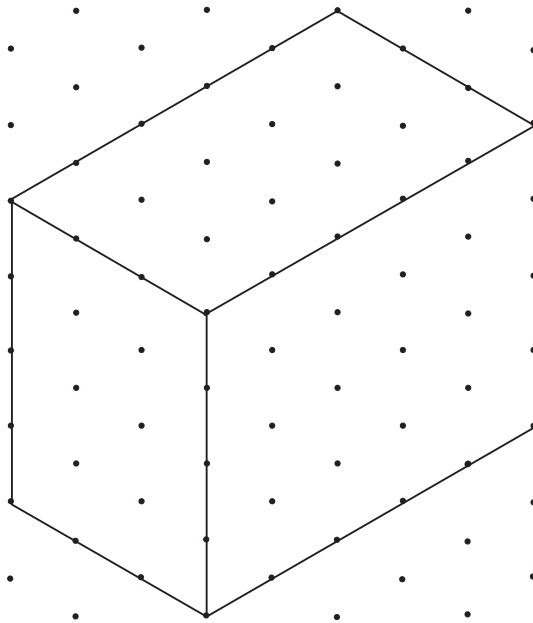
4. (a)



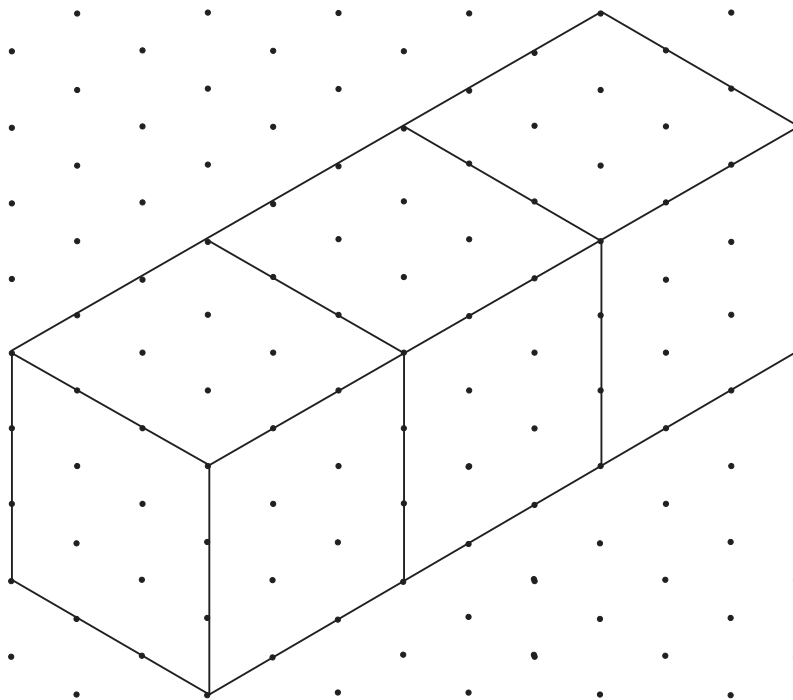
(b) A trapezium and an isosceles triangle.

Extra Exercises 6.2 Answers

1.

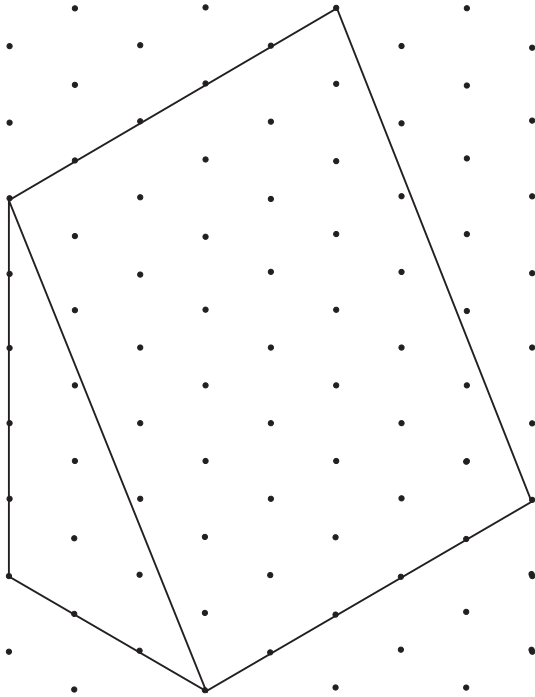


2.

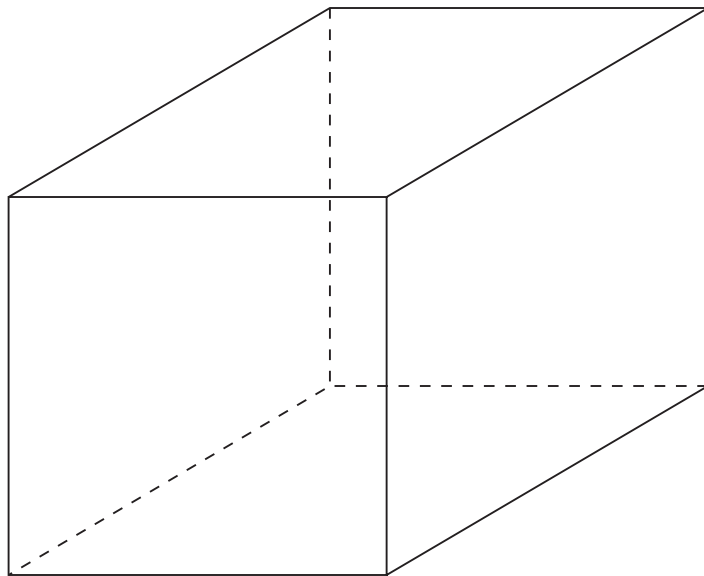


Extra Exercises 6.2 Answers

3.

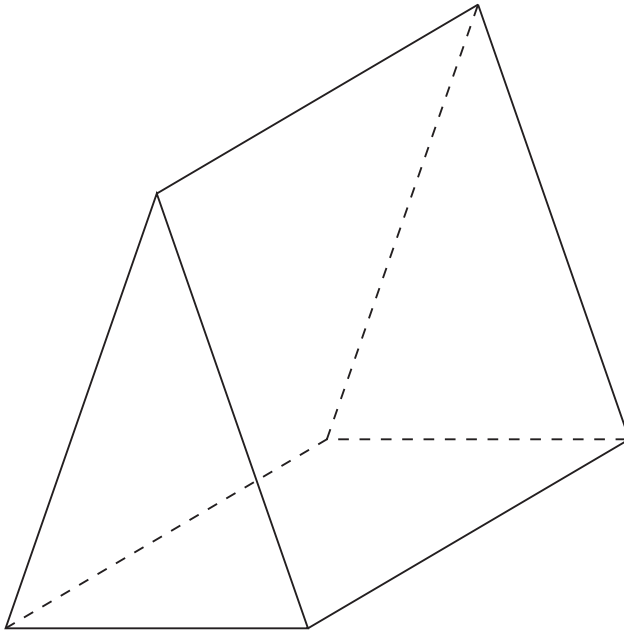


4.



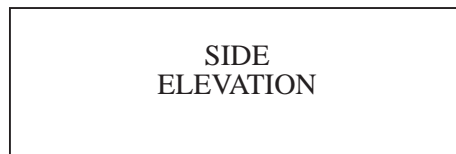
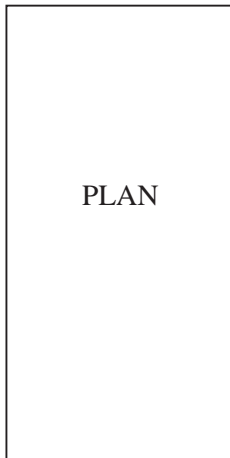
Extra Exercises 6.2 Answers

5.

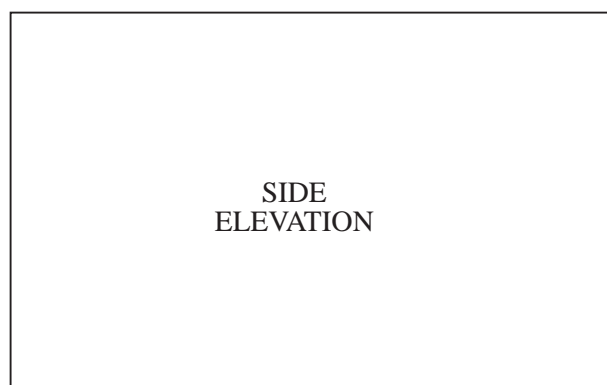
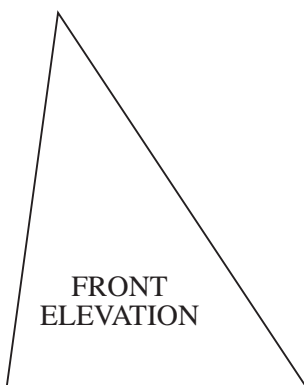
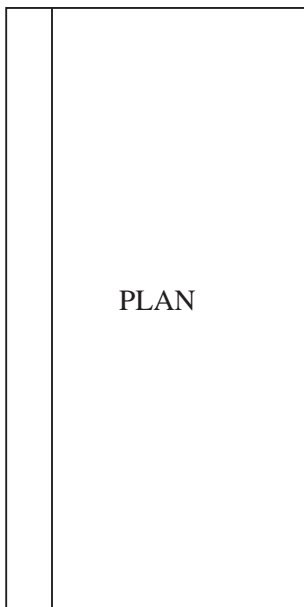


Extra Exercises 6.3 Answers

1.

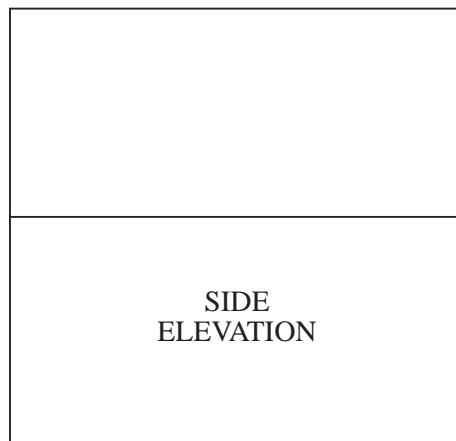
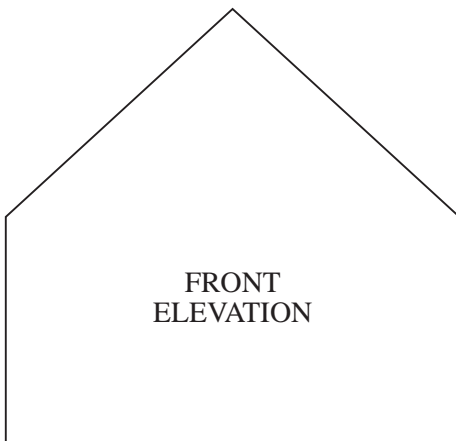
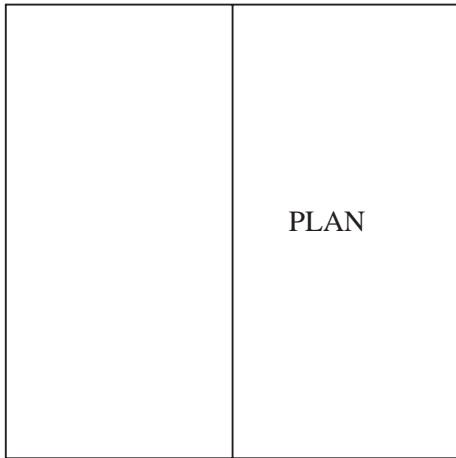


2.



Extra Exercises 6.3 Answers

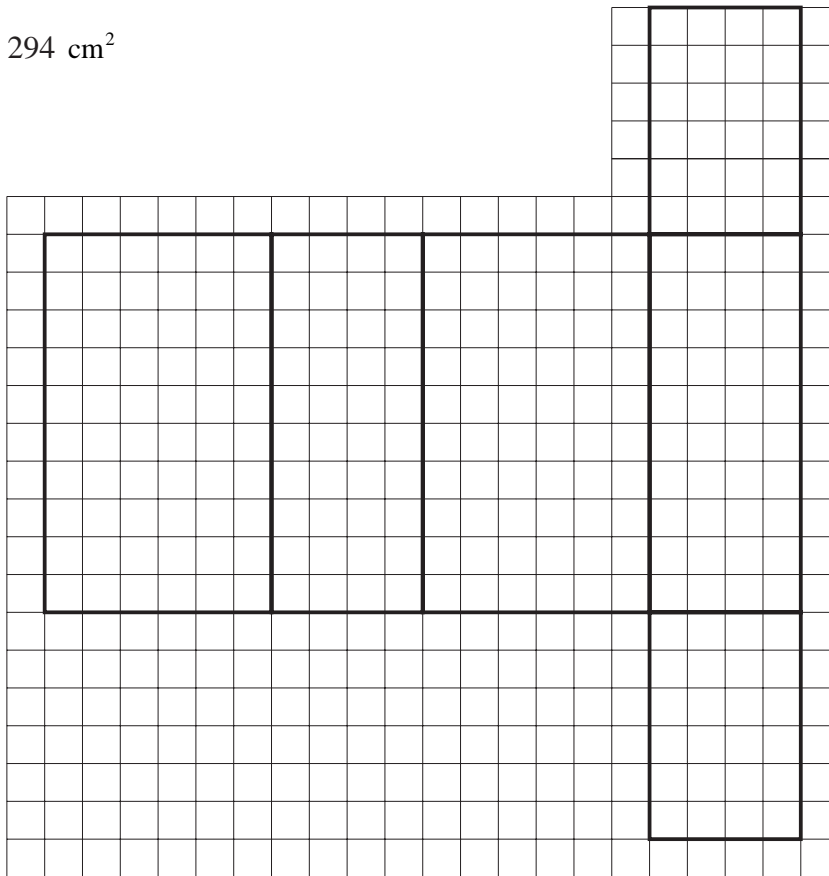
3.



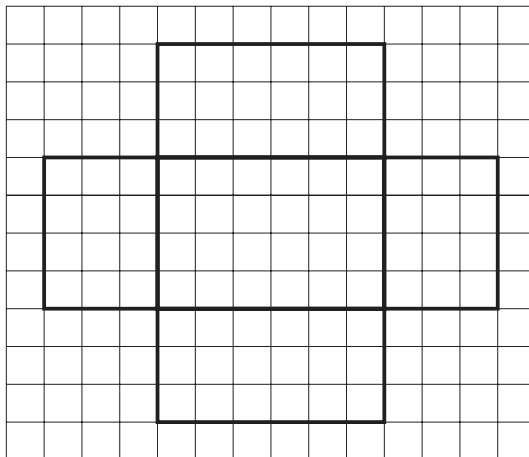
Extra Exercises 6.4 Answers

1. 294 cm²

2.



3. (a)



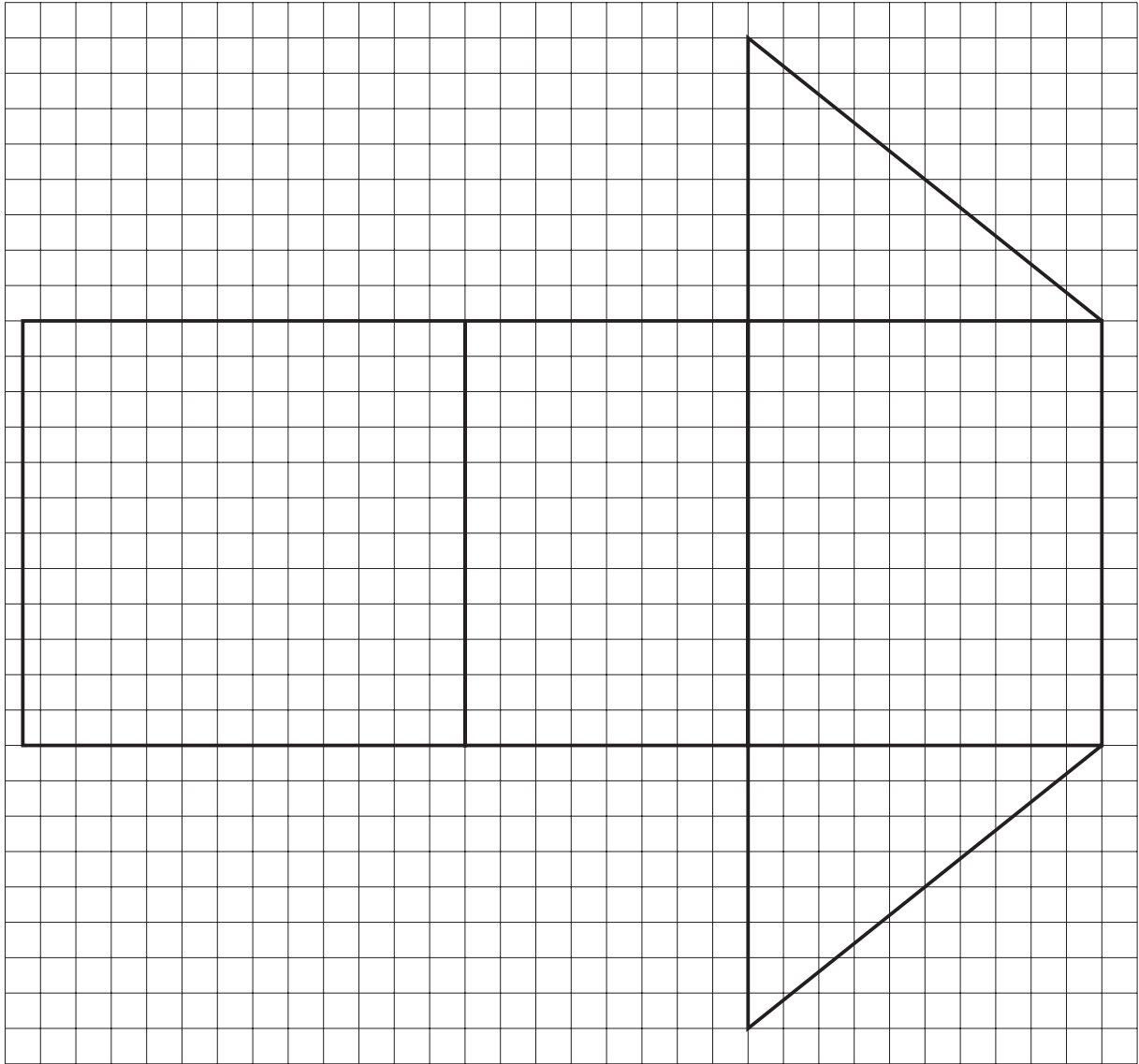
(b) 21 cm²

4. (a) 122 cm²

(b) 52 cm²

Extra Exercises 6.5 Answers

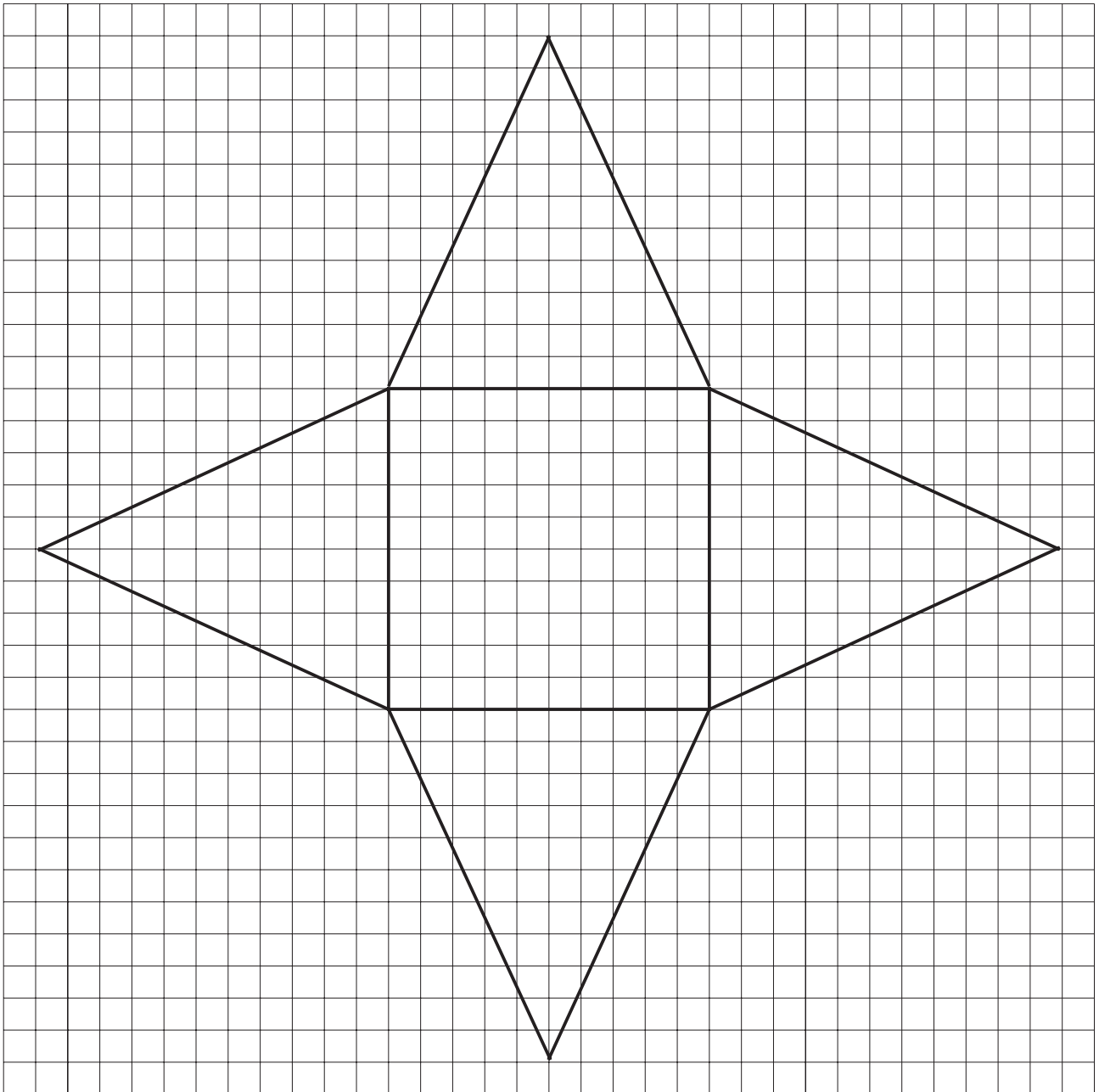
1. (a)



(b) 132 cm^2 to 3 s.f.

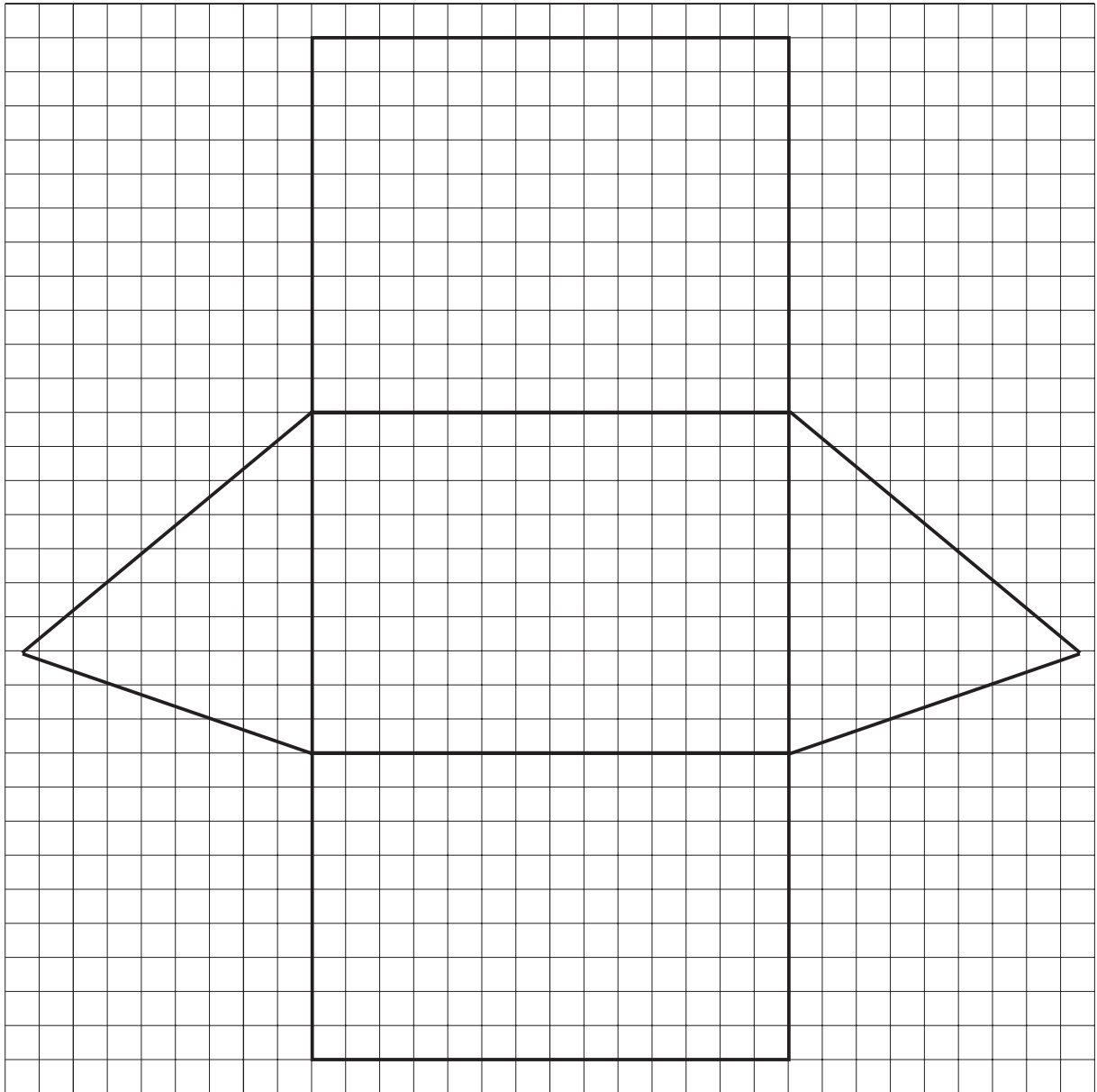
Extra Exercises 6.5 Answers

2.



Extra Exercises 6.5 Answers

3.



Extra Exercises 6.5 Answers

4.

