Name:

Exam Style Questions

Views and Elevations

Corbettmaths

Equipment needed: Ruler, Pencil and Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

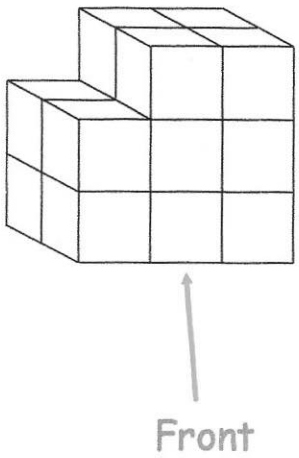
Video Tutorial

www.corbettmaths.com/contents

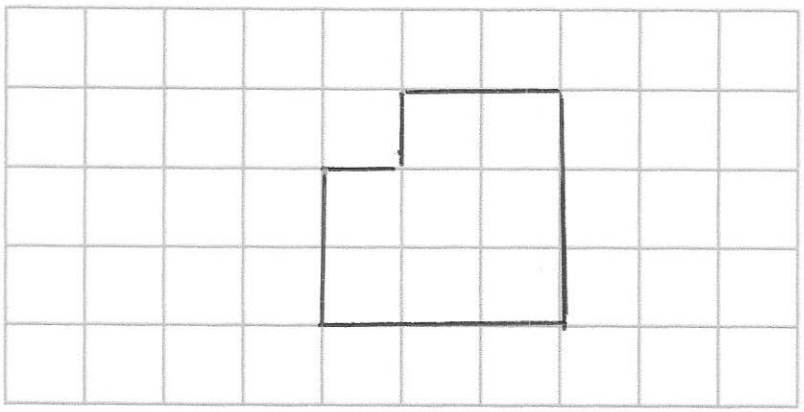
Video 354

Answers and Video Solutions

1. The diagram below shows a shape made with centimetre cubes.

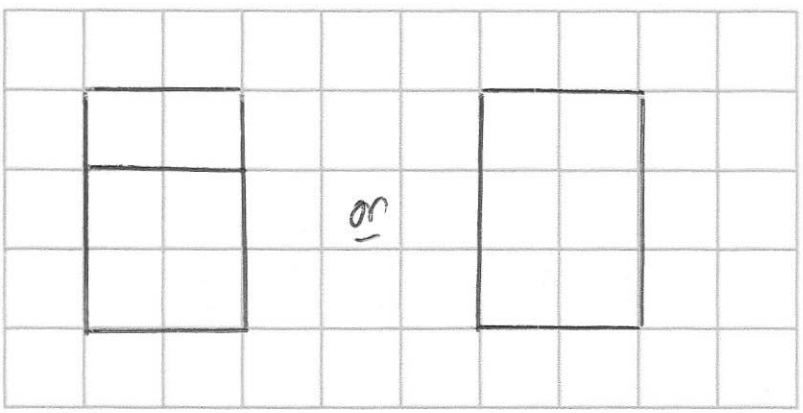


(a) On the centimetre square grid, draw the front elevation.



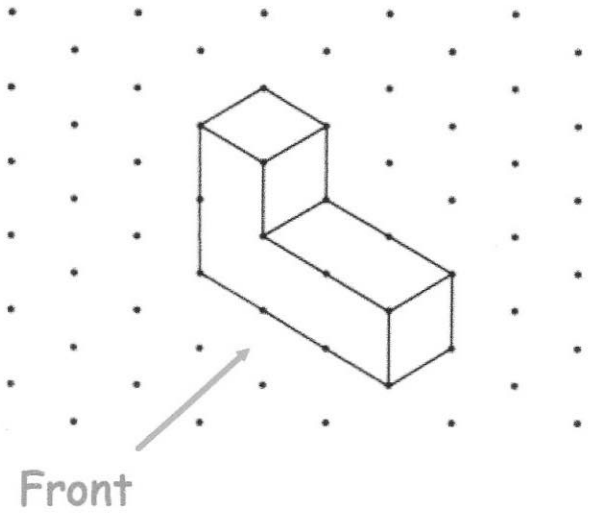
(2)

(b) On the centimetre square grid, draw the side elevation.

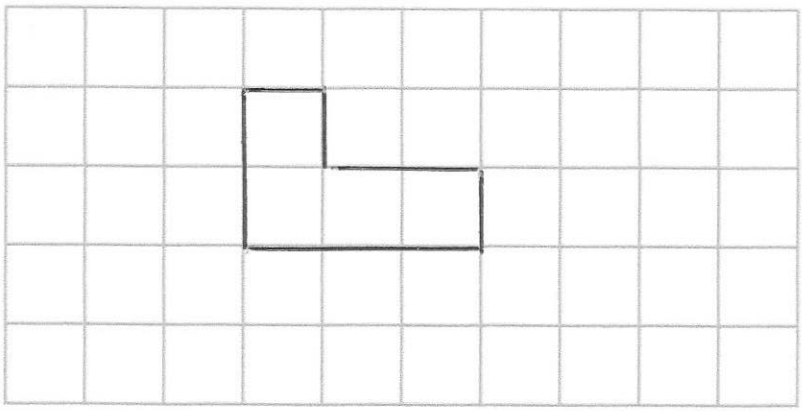


(2)

2. The diagram below shows a shape made with centimetre cubes.

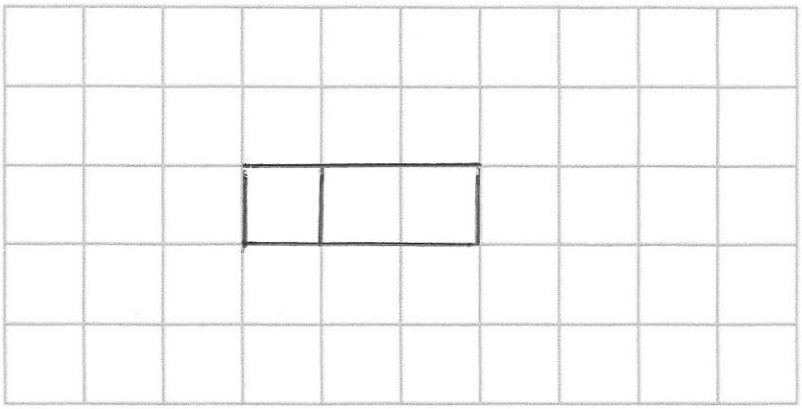


(a) On the centimetre square grid, draw the front elevation.



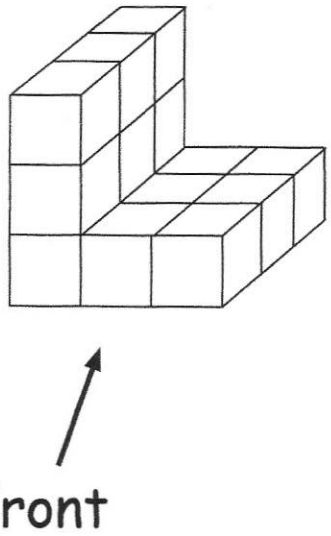
(2)

(b) On the centimetre square grid, draw the plan view.

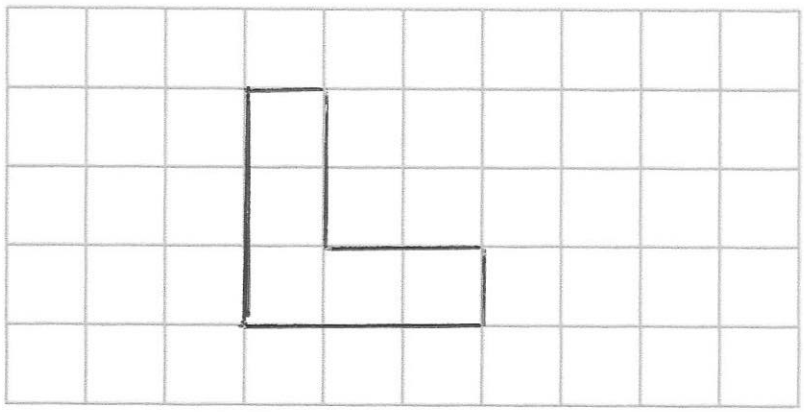


(2)

3. The diagram below shows a shape made with centimetre cubes.

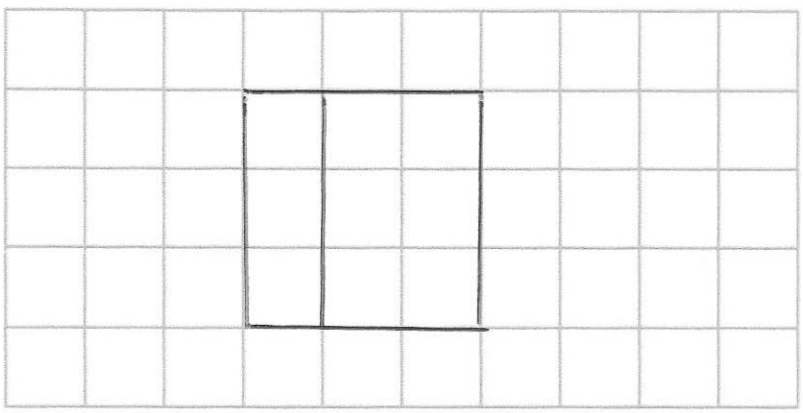


(a) On the centimetre square grid, draw the front elevation.



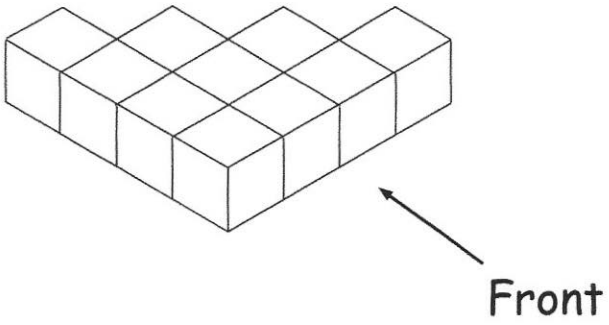
(2)

(b) On the centimetre square grid, draw the plan view.

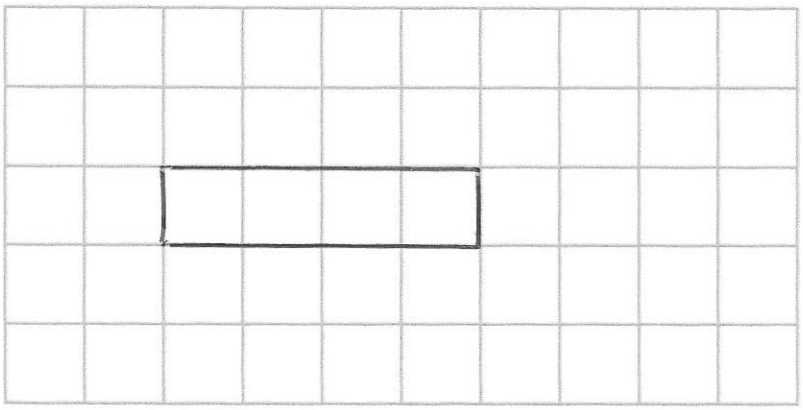


(2)

4. The diagram below shows a shape made with centimetre cubes.

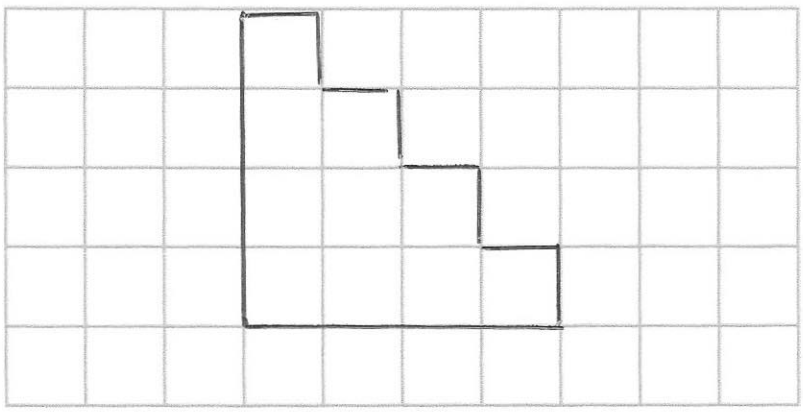


(a) On the centimetre square grid, draw the front elevation.



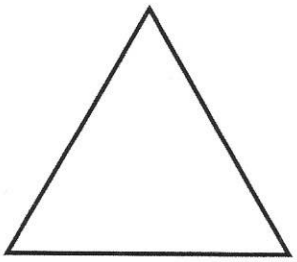
(2)

(b) On the centimetre square grid, draw the plan view.



(2)

5. Here is the side elevation of a solid 3D shape.

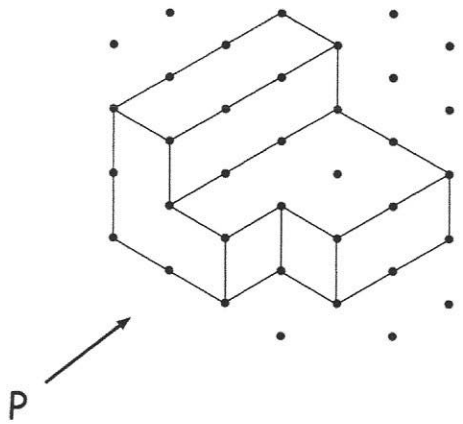


Circle the shape that it could be.

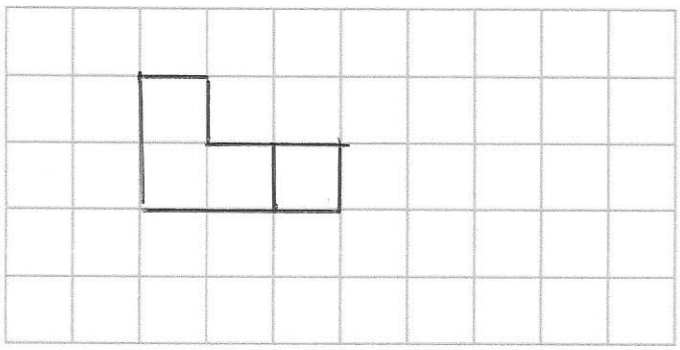
Cylinder Sphere Cone Cuboid

(1)

6. The diagram below shows a shape made with centimetre cubes.

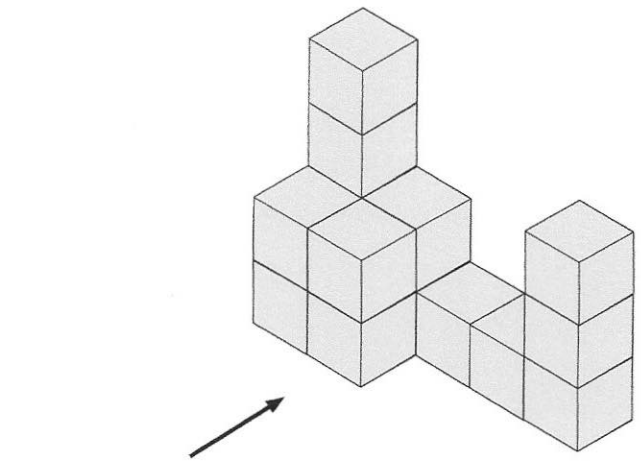


On the centimetre grid, draw the elevation of the shape from P

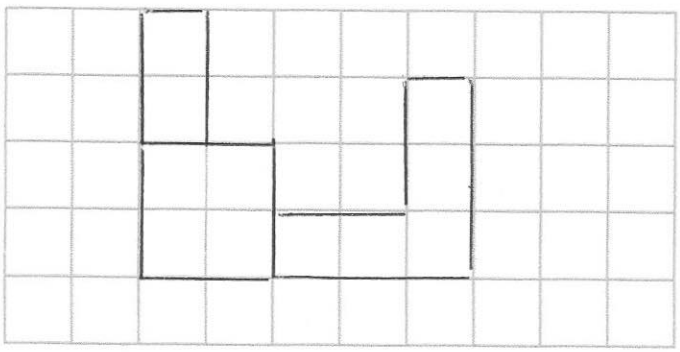


(1)

7. A solid is made from 1cm cubes.

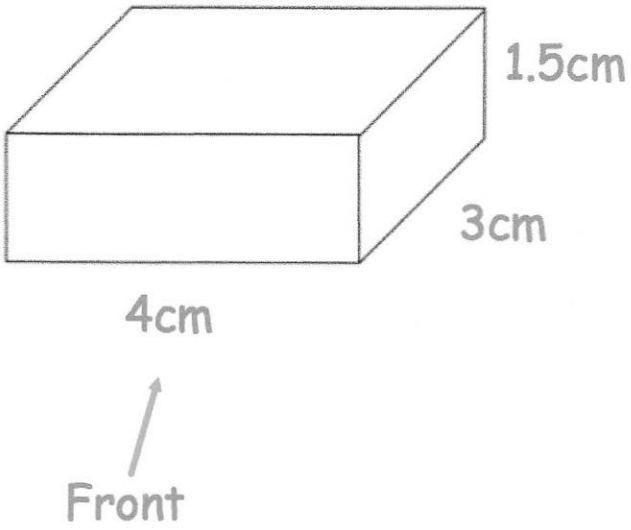


On the grid, draw the front elevation.

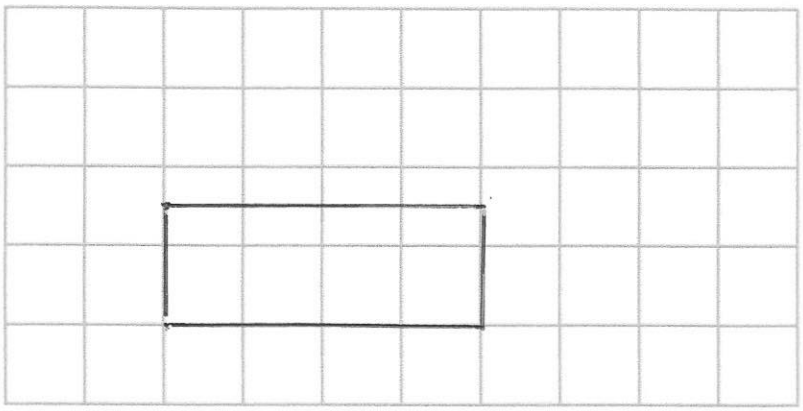


(2)

8. Shown below is a cuboid.

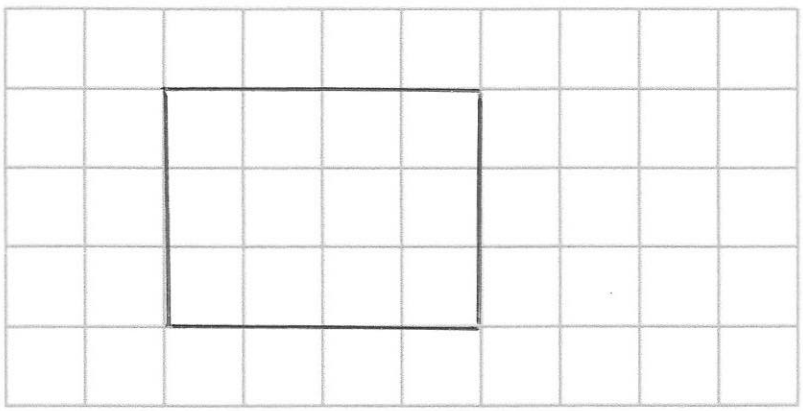


(a) On the centimetre square grid, draw the front elevation.



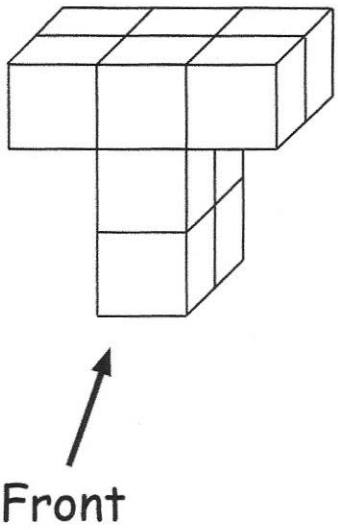
(2)

(b) On the centimetre square grid, draw the plan view.

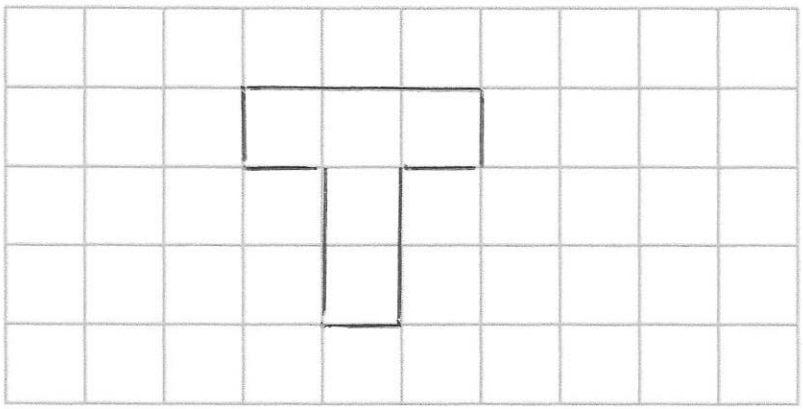


(2)

9. Shown below is a solid shape made from centimetre cubes.

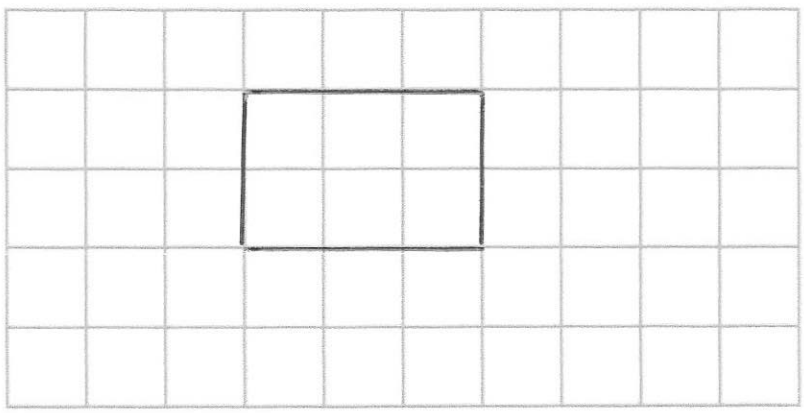


(a) On the centimetre square grid, draw the front elevation.



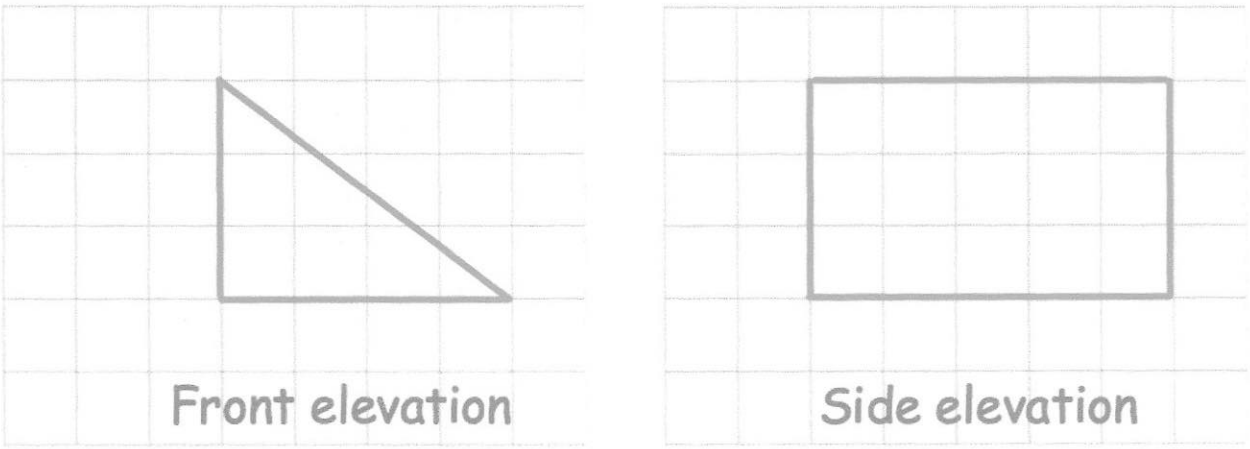
(2)

(b) On the centimetre square grid, draw the plan view.

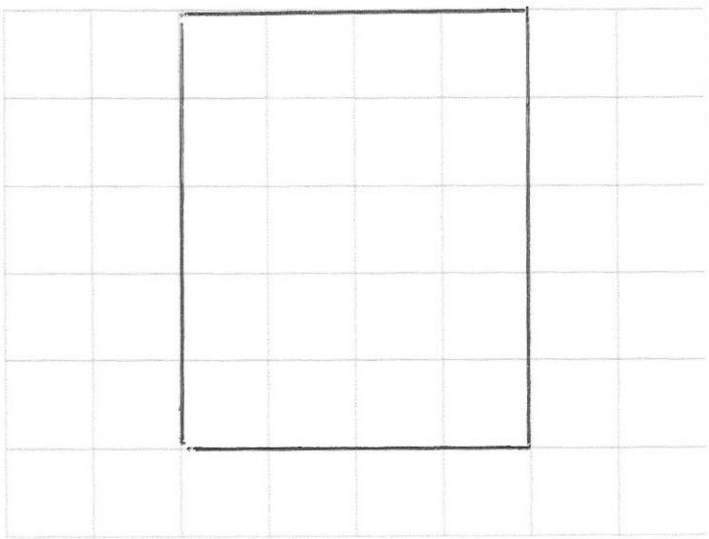


(2)

10 Here are the front and side elevations of a solid shape.

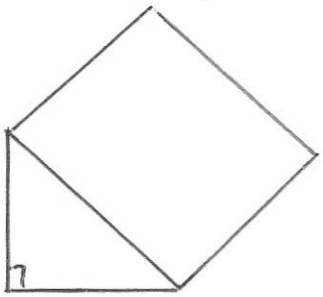


(a) On the grid, draw the plan view.



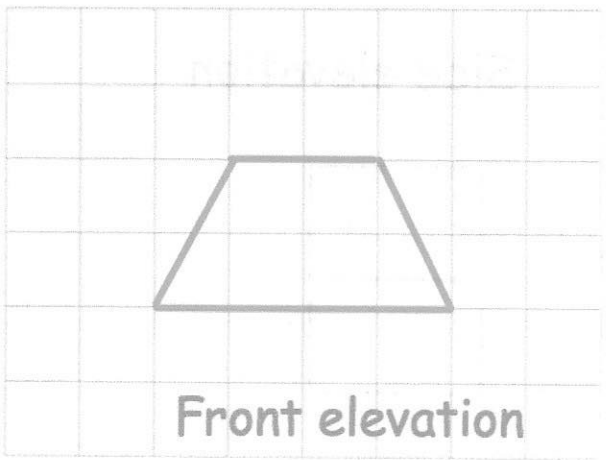
(2)

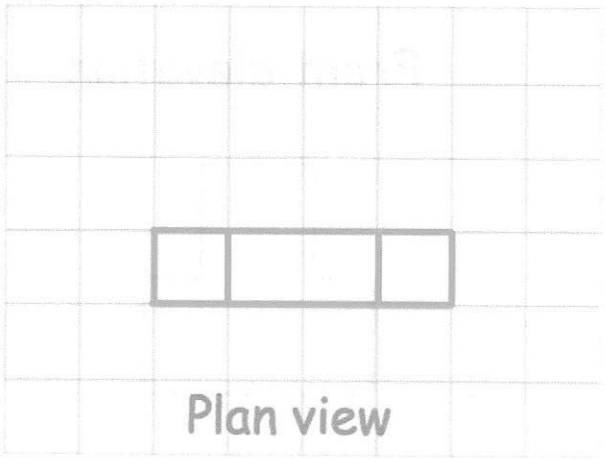
(b) Draw a sketch of the solid shape.



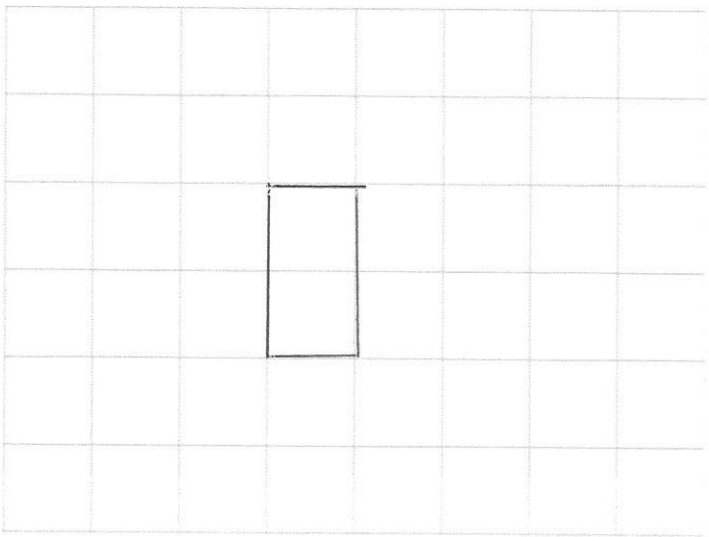
(2)

11. Here are the front elevation and plan view of a solid shape.



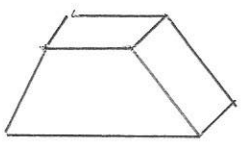


(a) On the grid, draw the side elevation.



(2)

(b) Draw a sketch of the solid shape.

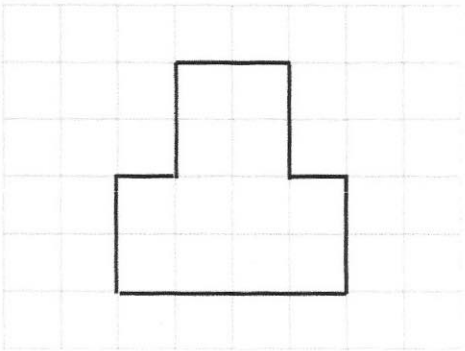


(2)

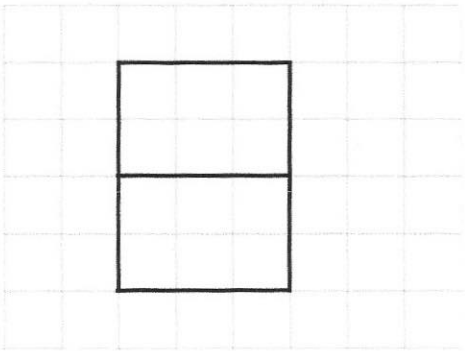
12. The front elevation and side elevation of a solid prism are shown below.

Draw the plan view of the prism.

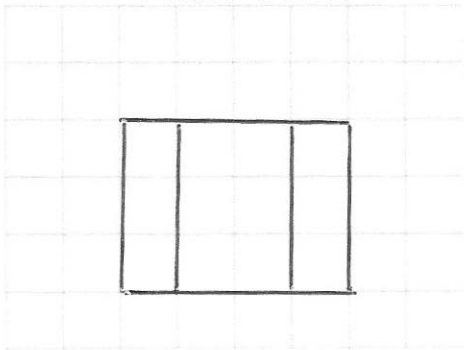
Front elevation



Side elevation

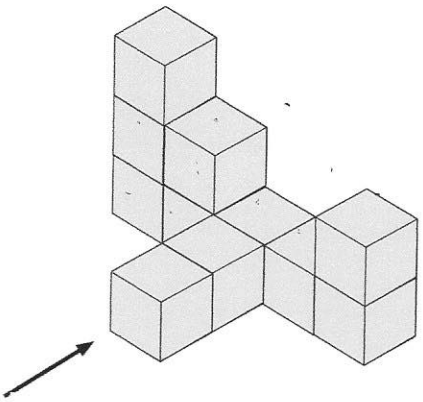


Plan View



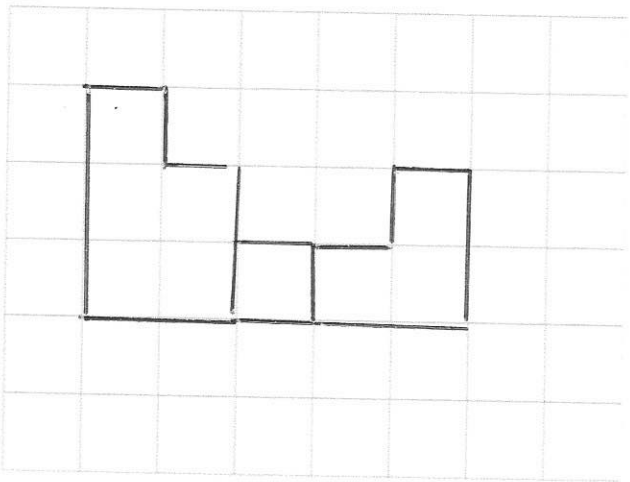
(2)

13. The solid shape is made using 1cm cubes.
The volume of the shape is 11cm³



Front

(a) Draw the front elevation of the solid.



(2)

Jenson adds cubes to the solid to make a cuboid.

(b) What is the smallest number of cubes he would need to add?

$6 + 14 + 14 = 34$

or cuboid would be $3 \times 3 \times 5 = 45$

$45 - 11 = 34$

34

.....

(1)

14. The front elevation of a solid shape is a circle.
The side elevation of the solid shape is a rectangle.
The plan view of the solid shape is a rectangle.

Write down the name of the shape.

Cylinder
.....
(1)

15. The front elevation of a solid shape is a triangle.
The side elevation of the solid shape is a triangle.
The plan view of the solid shape is a circle.

Write down the name of the shape.

Cone
.....
(1)

16. The front elevation of a solid shape is a triangle.
The side elevation of the solid shape is a triangle.
The plan view of the solid shape is a square.

Write down the name of the shape.

Square based pyramid
.....
(1)