

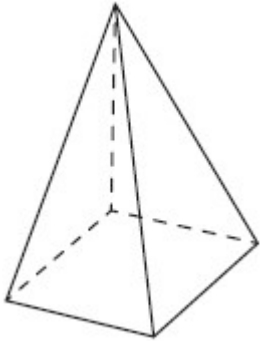
## GCSE QUESTIONS

### Q1. NON-CALCULATOR

(a) Write down the number of faces of a cube.

.....  
(1)

Here is a square-based pyramid.



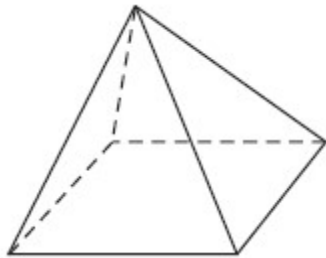
(b) Write down the number of edges.

.....  
(1)

(Total for question = 2 marks)

### Q2. NON-CALCULATOR

Here is a square-based pyramid.



(i) How many faces does the pyramid have?

.....  
(1)

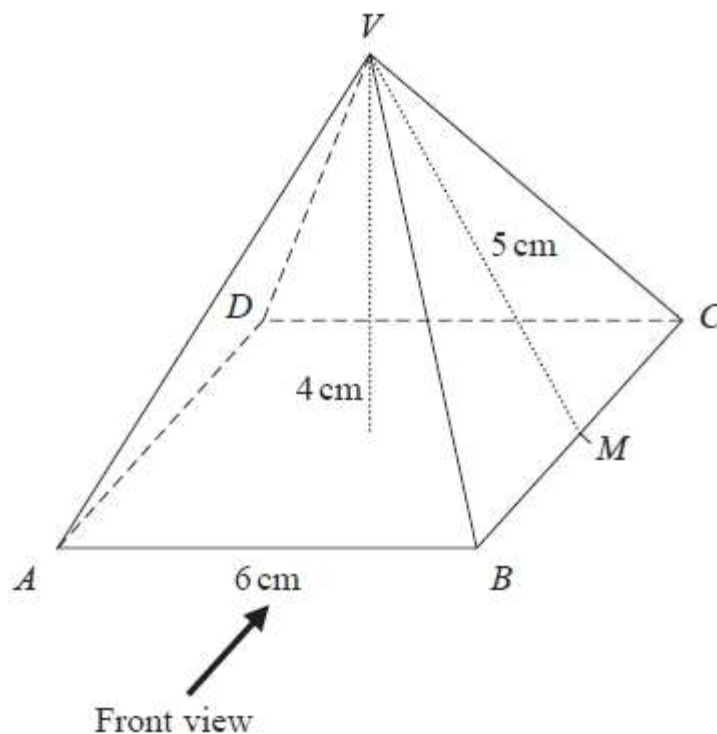
(ii) How many edges does the pyramid have?

.....  
(1)

(Total for question = 2 marks)

### Q3. NON-CALCULATOR

Here is a solid square-based pyramid,  $VABCD$ .

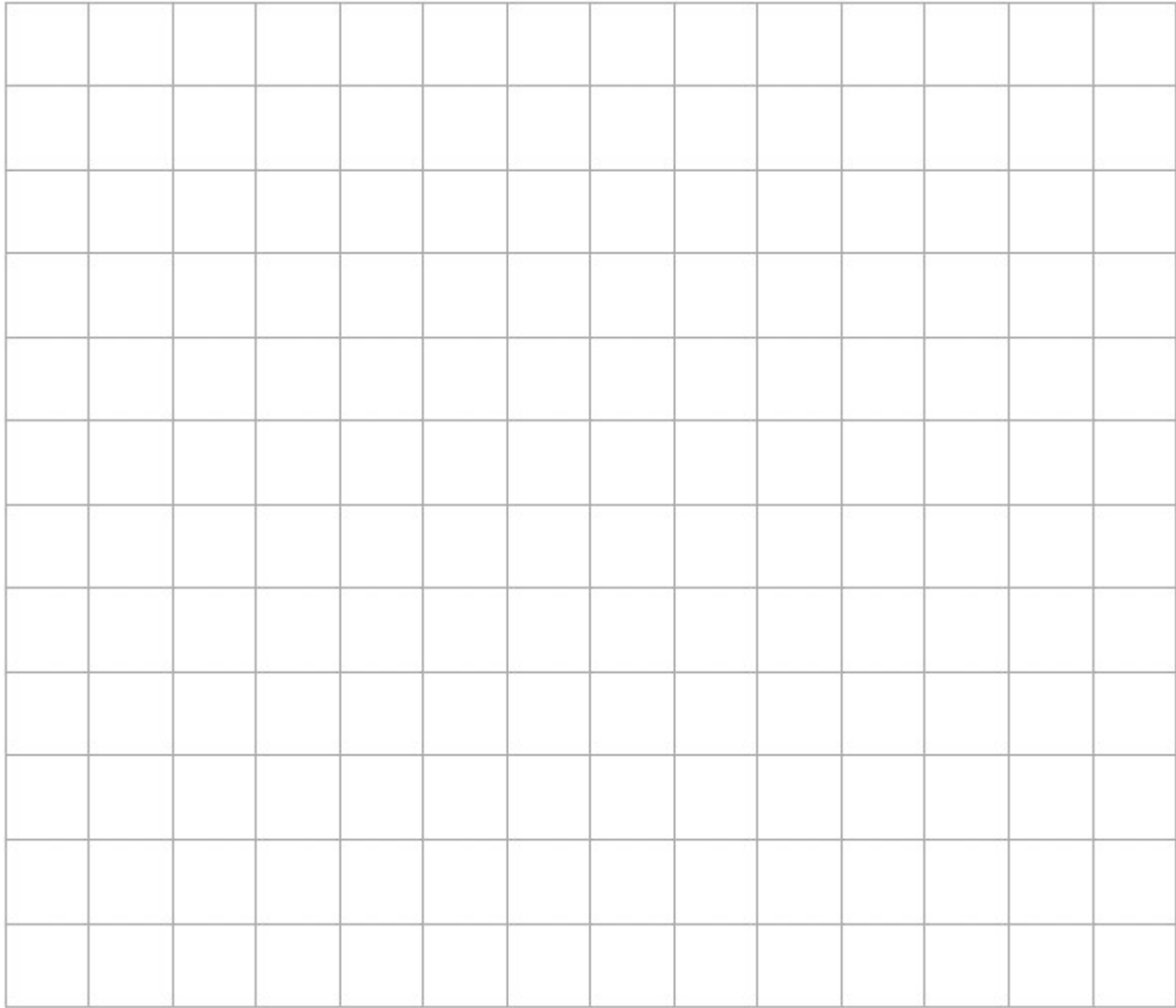


The base of the pyramid is a square of side 6 cm.

The height of the pyramid is 4 cm.

$M$  is the midpoint of  $BC$  and  $VM = 5$  cm.

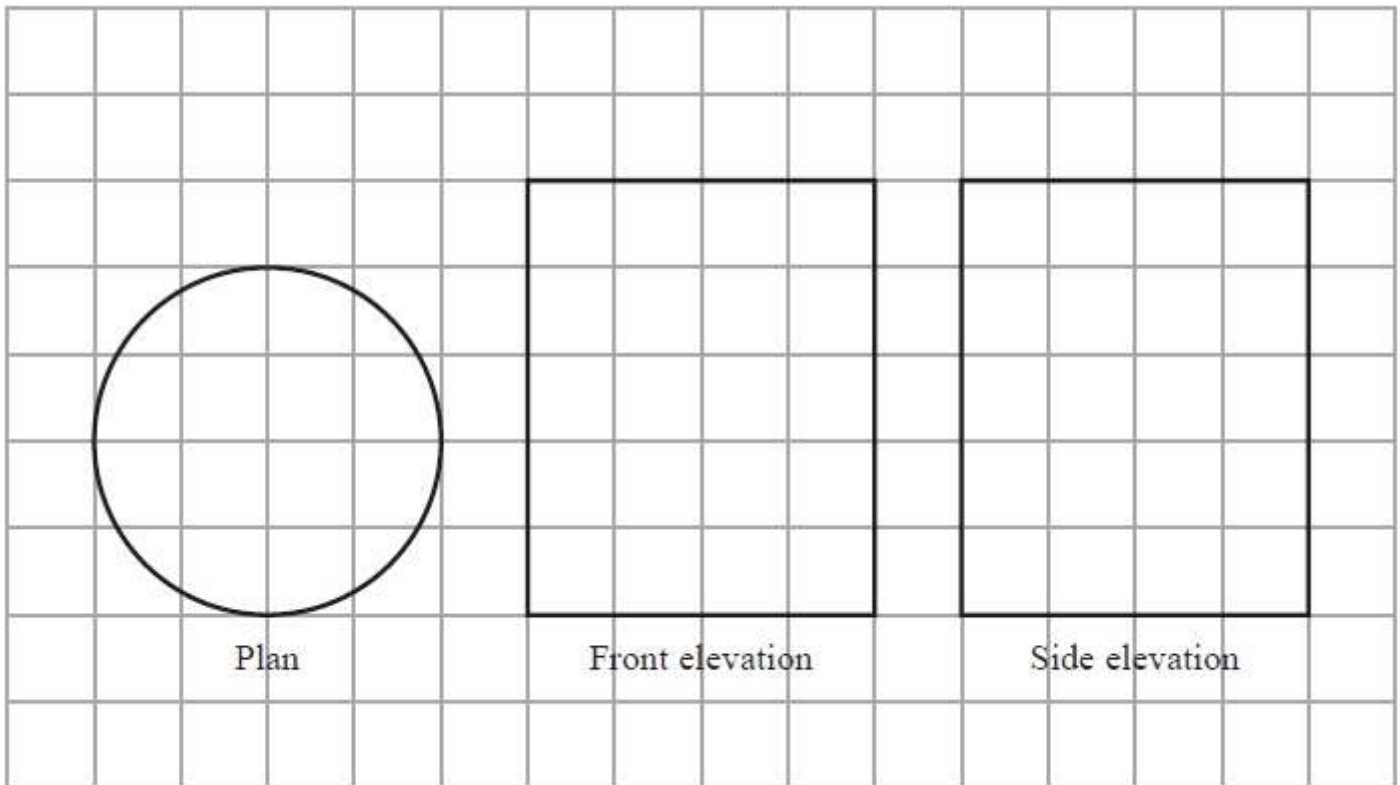
Draw an accurate front elevation of the pyramid from the direction of the arrow.



(Total for question = 2 marks)

**Q4. NON-CALCULATOR**

The diagram shows the plan, front elevation and side elevation of a solid shape, drawn on a centimetre grid.

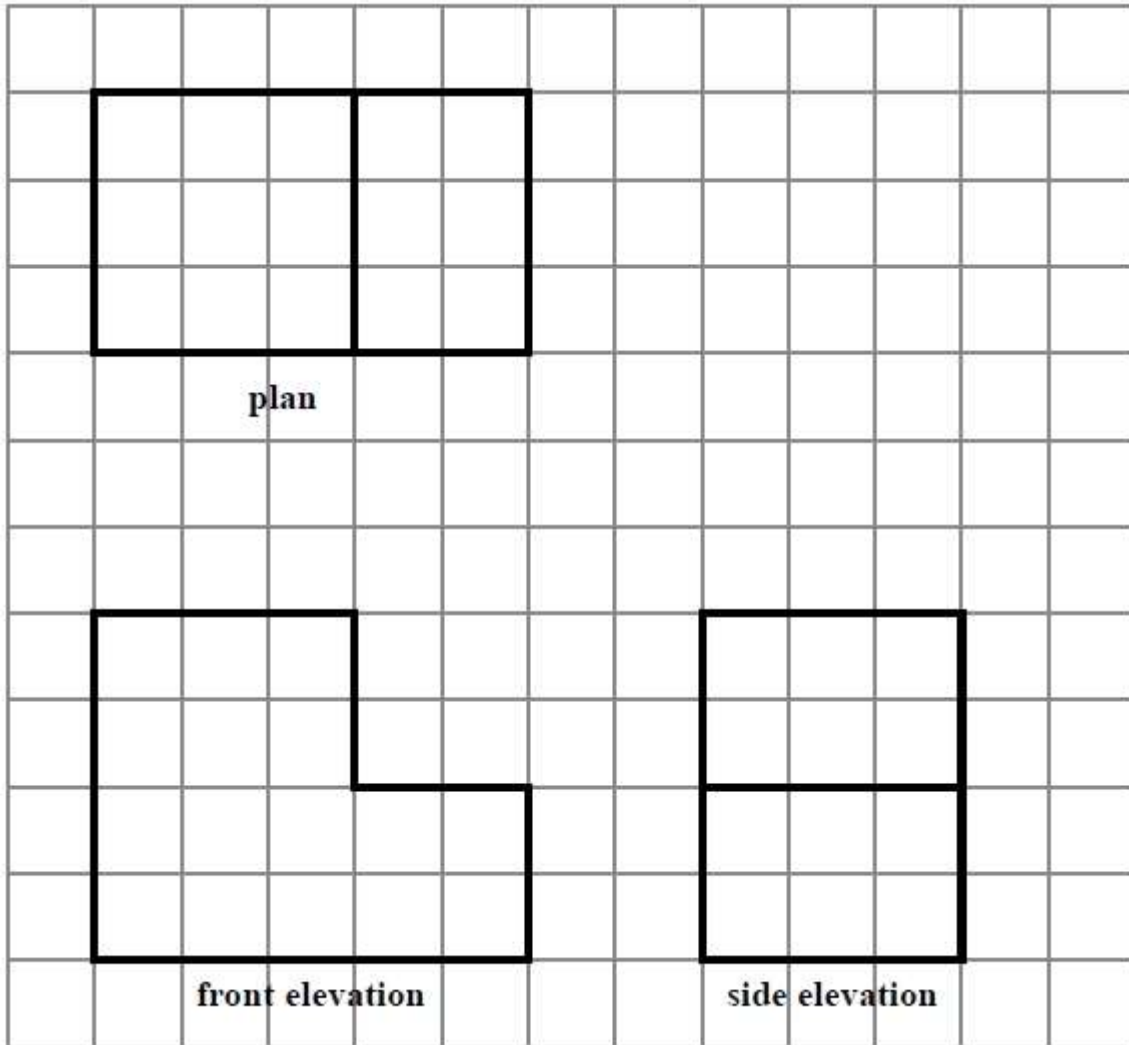


In the space below, draw a sketch of the solid shape.  
Give the dimensions of the solid on your sketch.

(Total for question = 2 marks)

**Q5. NON-CALCULATOR**

The plan, front elevation and side elevation of a solid prism are drawn on a centimetre grid.

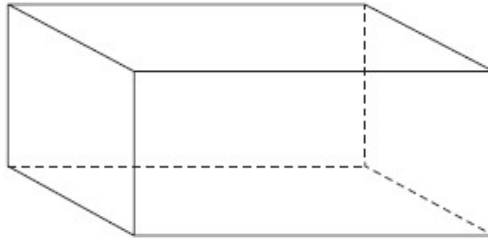


In the space below, draw a sketch of the solid prism.  
Write the dimensions of the prism on your sketch.

(Total for question = 2 marks)

**Q6. CALCULATOR ALLOWED**

Here is a 3-D shape.



(a) Write down the name of this 3-D shape.

.....  
(1)

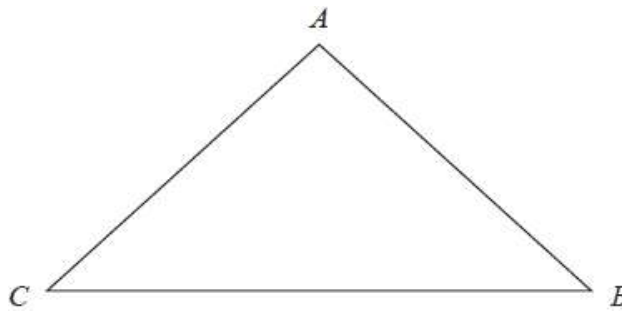
(b) Write down the number of edges of this 3-D shape.

.....  
(1)

(Total for question = 2 marks)

**Q7. CALCULATOR ALLOWED**

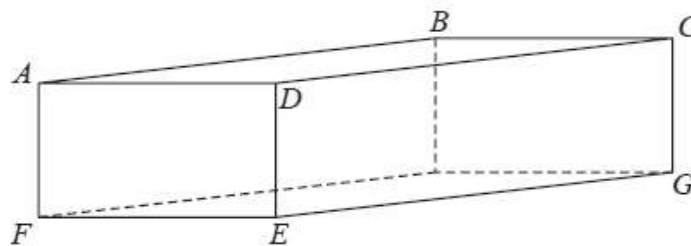
Here is a triangle  $ABC$ .



(a) Mark, with the letter  $y$ , the angle  $CBA$ .

(1)

Here is a cuboid.



Some of the vertices are labelled.

(b) Shade in the face  $CDEG$ .

(1)

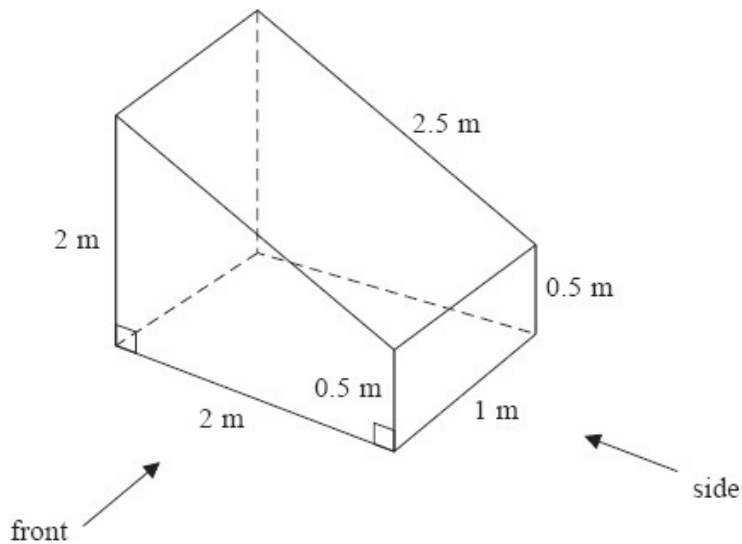
(c) How many edges has a cuboid?

.....  
(1)

(Total for question is 3 marks)

**Q8. CALCULATOR ALLOWED**

The diagram shows a prism with a cross section in the shape of a trapezium.



On the centimetre grid below, draw the front elevation and the side elevation of the prism.  
Use a scale of 2 cm to 1 m.

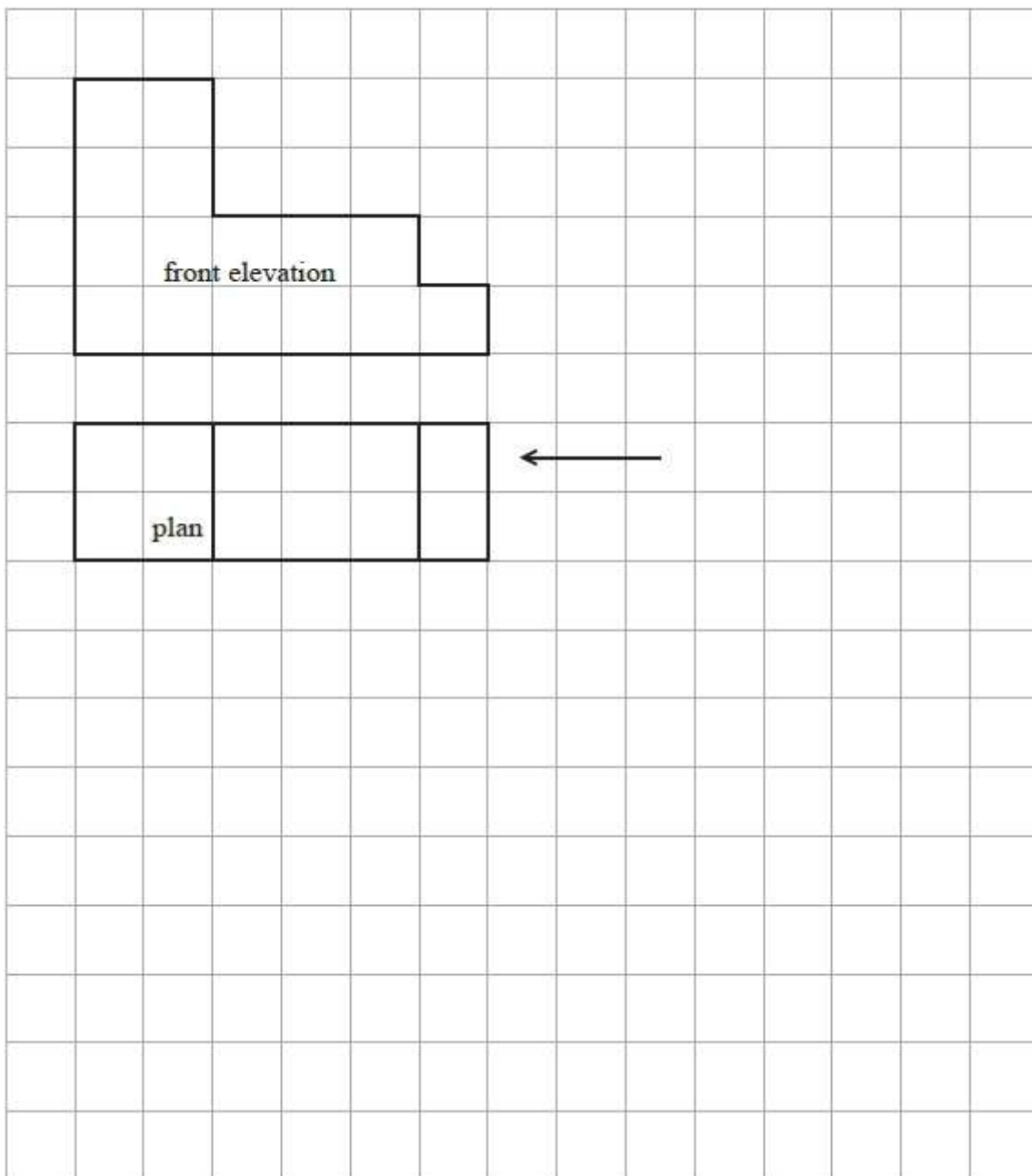


(Total for question = 4 marks)

**Q9. CALCULATOR ALLOWED**

The front elevation and plan of a solid are shown on the grid.

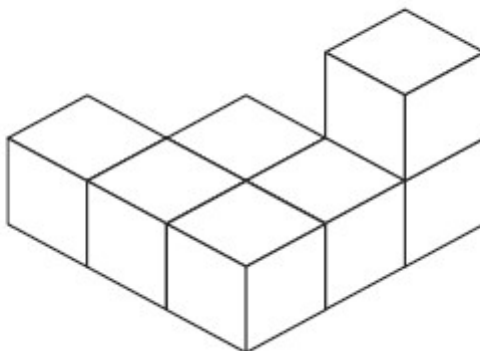
On the grid, draw the side elevation from the direction of the arrow.



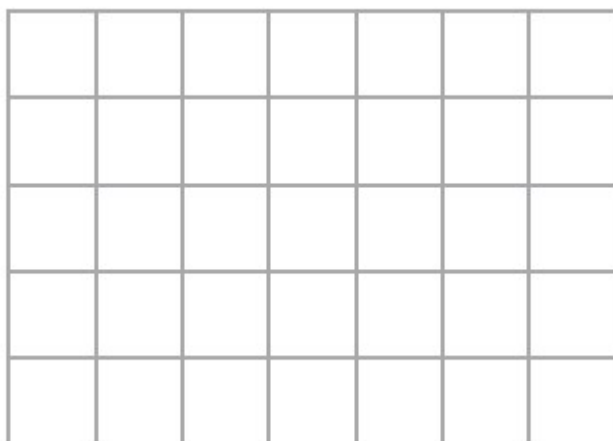
(Total for question = 2 marks)

**Q10. CALCULATOR ALLOWED**

The diagram represents a solid made from seven centimetre cubes.



On the centimetre grid below, draw a plan of the solid.



(Total for question = 2 marks)