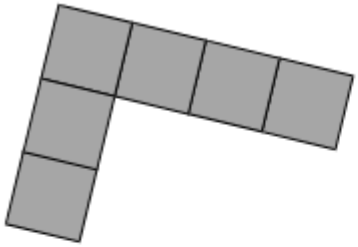
## Non-Calculator

## Q1.

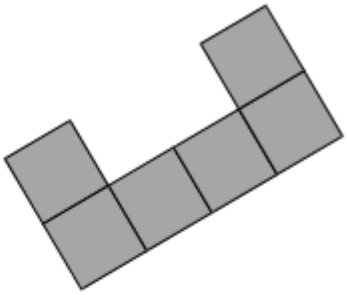
Which of these is the **net** of a **cube**?

Circle the correct letter.

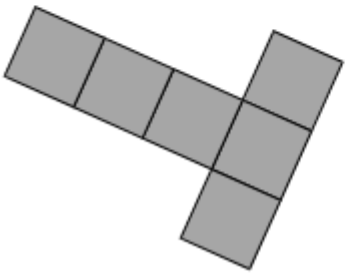
A



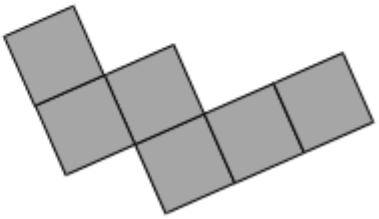
B



C



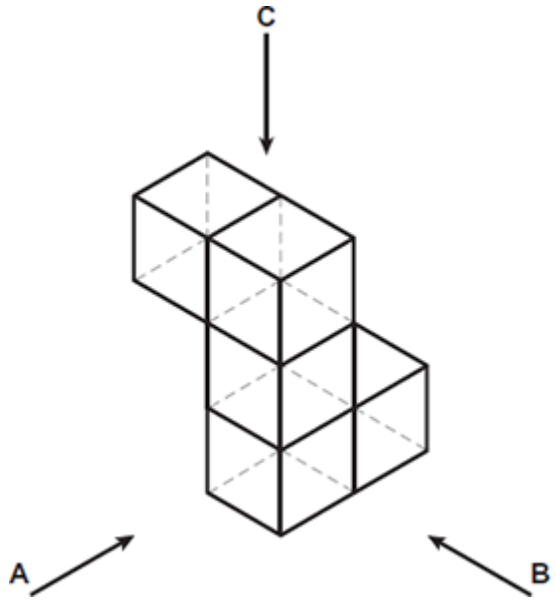
D



**(Total 1 mark)**

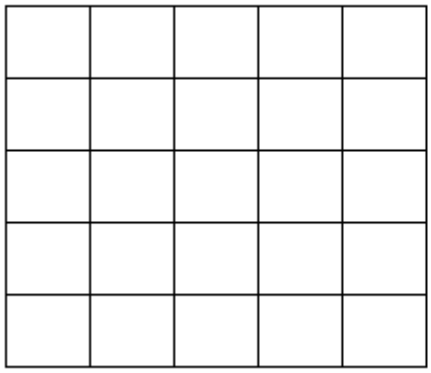
## Q2.

This shape is made from **five** cubes.

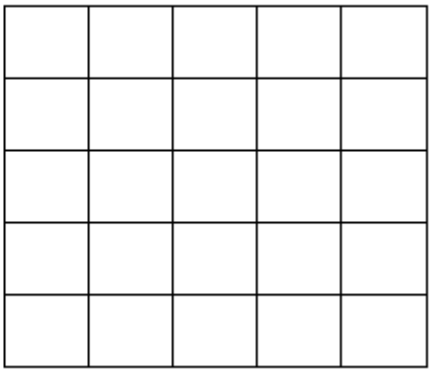



Draw what the shape looks like when seen from A, B and C.

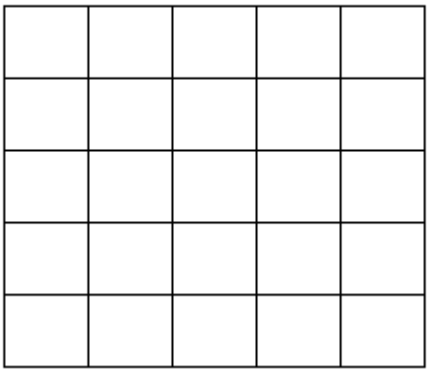
**From A**



**From B**



**From C**

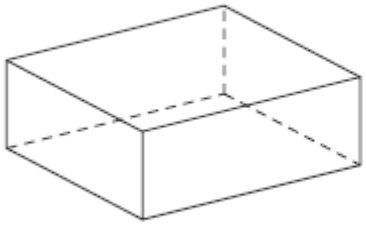


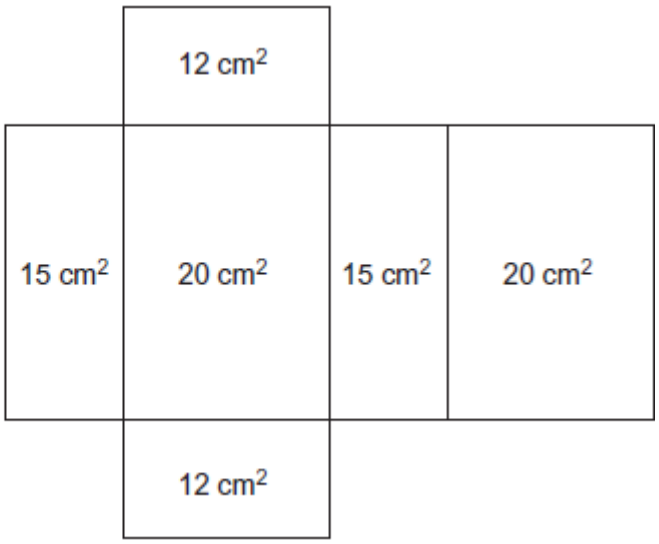
**(Total 3 marks)**

**Q3.**

Here is the net of a cuboid.
The net shows the area of each face.

Not drawn accurately






Work out the **volume** of the cuboid.

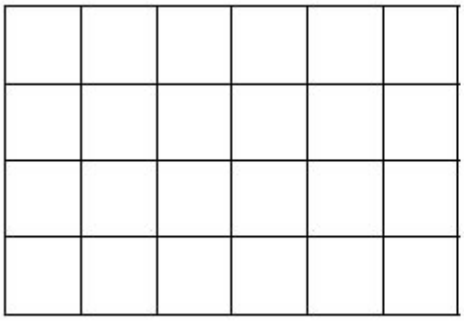
Answer _____ $cm^3$

**(Total 4 marks)**

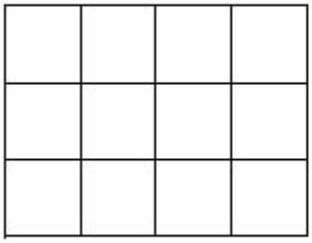
## Calculator

### Q4.

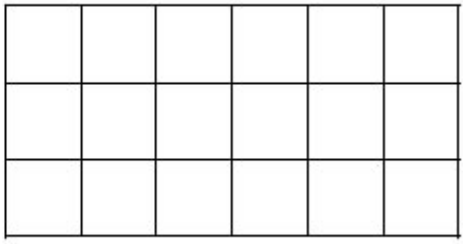
A solid cuboid is made from **centimetre cubes**.



Plan view



Front elevation



Side elevation

How many centimetre cubes were used to make the cuboid?

_____

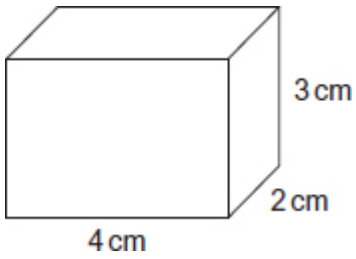
_____

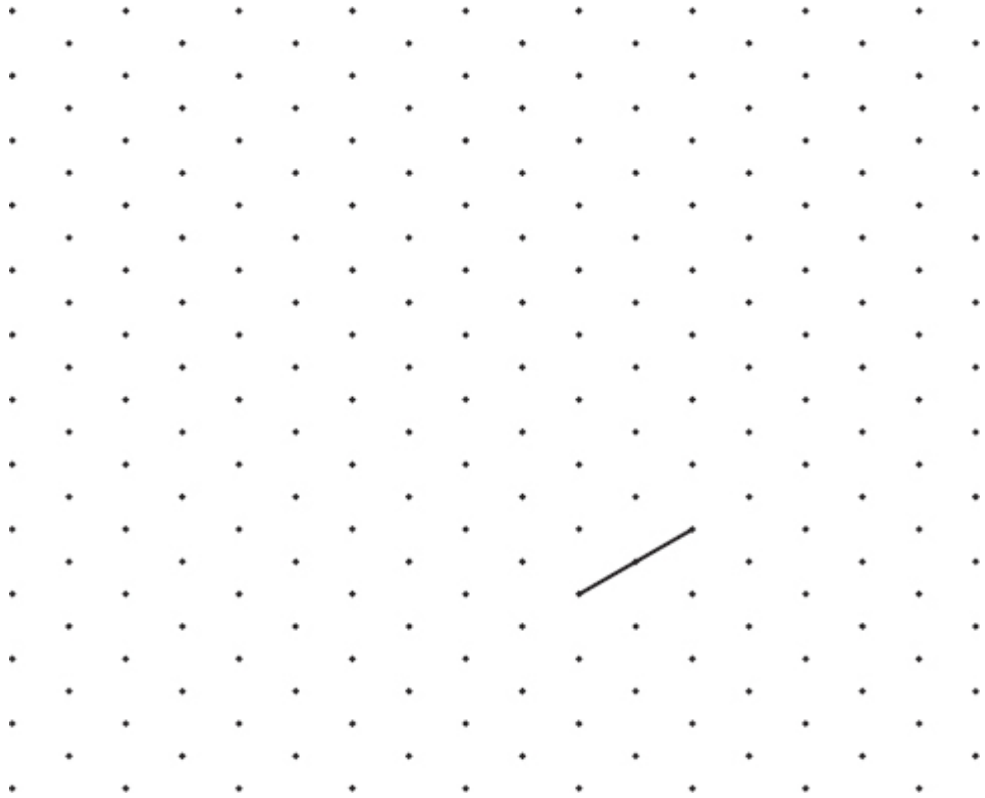
Answer _____

**(Total 2 marks)**

**Q5.**

Make an accurate drawing of this cuboid on the isometric grid.
One edge has been drawn for you.

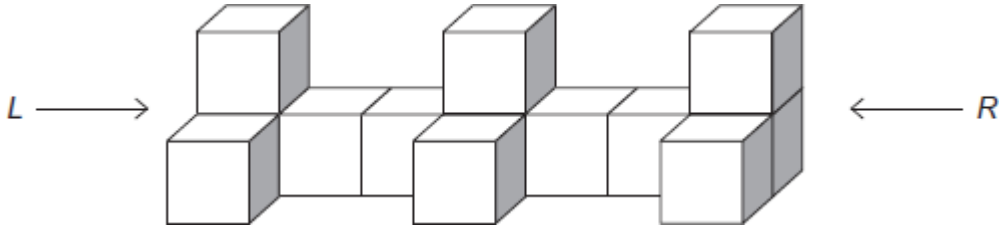


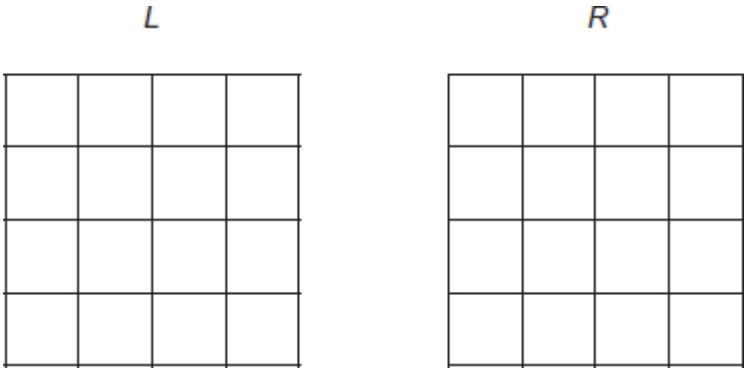
**(Total 2 marks)**

**Q6.**

This solid shape is made from identical cubes.

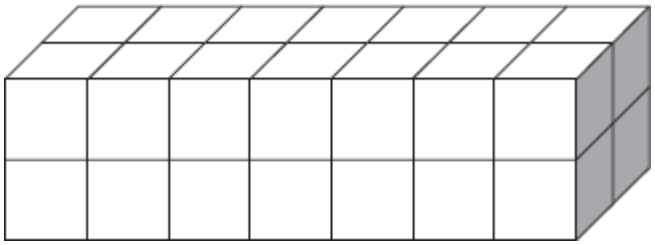



(a) On the grids draw the side elevations *L* and *R*.




**(2)**

(b) How many cubes must be **added** to the shape to make this cuboid?



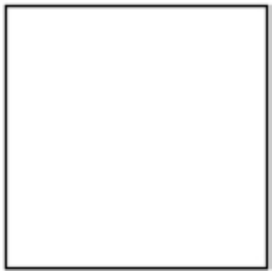
Answer _____

**(2)**

**(Total 4 marks)**

**Q7.**

The front elevation, side elevation and plan of a solid are all the same, as shown.

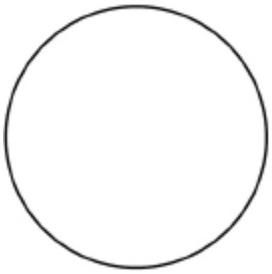


(a) Write down the name of the solid.

Answer _____

**(1)**

(b) The front elevation, side elevation and plan of a solid are all the same, as shown.



Write down the name of the solid.

Answer _____

**(1)**

**(Total 2 marks)**

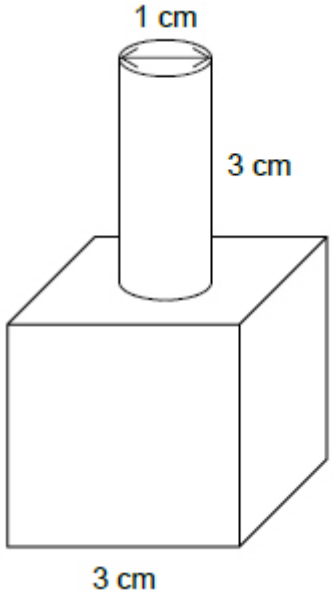
**Q8.**

A solid shape is made with a cube and a cylinder.

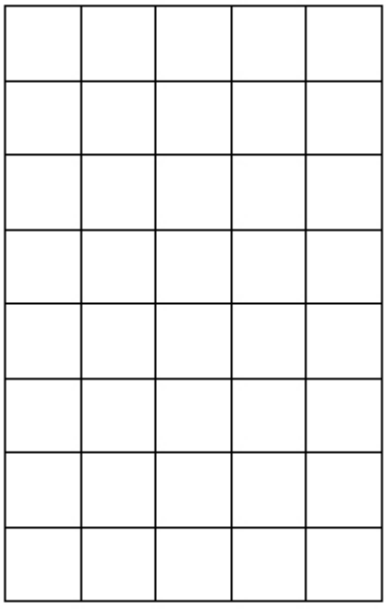
The cube has edge length 3 cm

The cylinder has diameter 1 cm and height 3 cm

(a) The cylinder sits symmetrically on the centre of the top of the cube as shown.

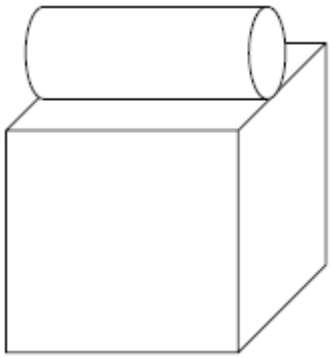



Draw the front elevation on the centimetre grid below.



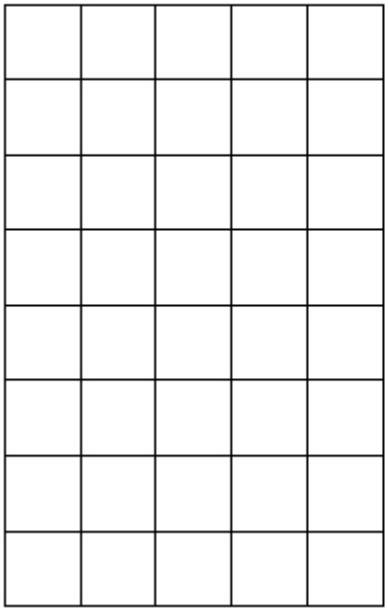
**(1)**

(b) The cylinder now sits symmetrically on the centre of the top of the cube as shown.

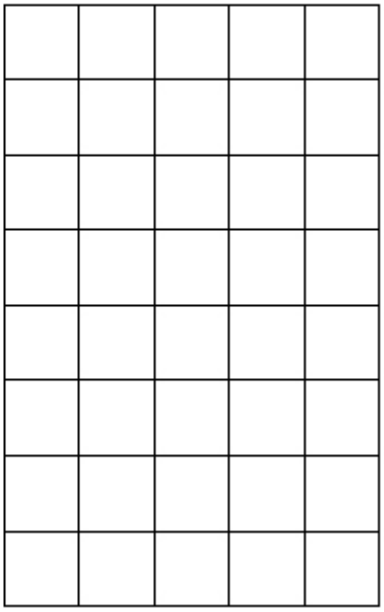


Draw the front elevation and the side elevation on the centimetre grids below.

**Front**



**Side**



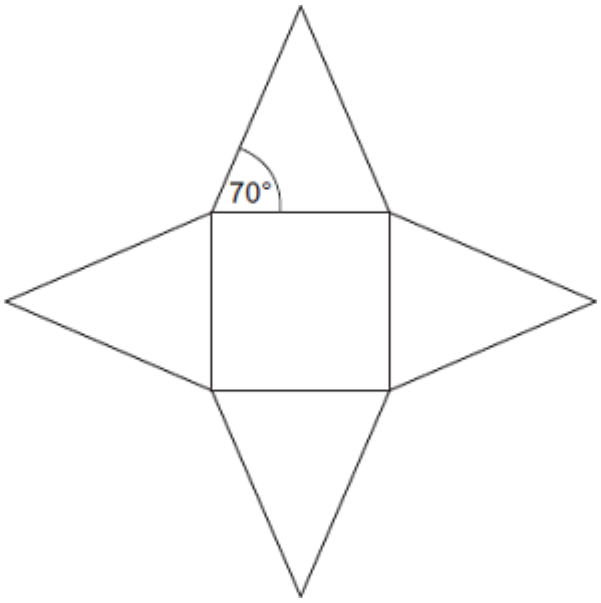
**(2)**

**(Total 3 marks)**

**Q9.**

The diagram shows the net of a square-based pyramid.

Not drawn accurately




The area of the square base is 36 $cm^2$.

Work out the area of one triangular face.

Answer _____ $cm^2$

**(Total 5 marks)**