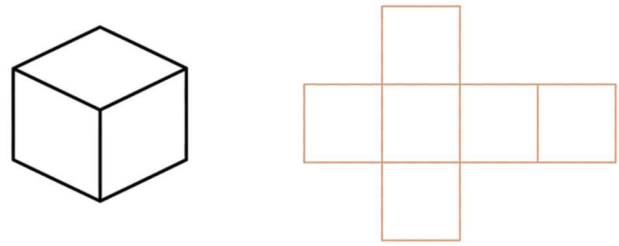
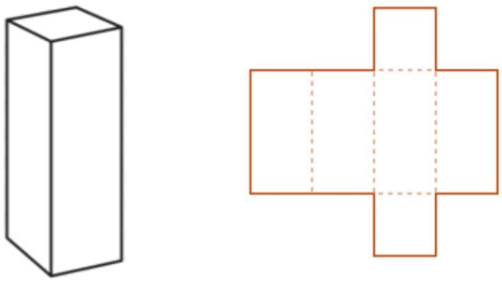
NETS, PLANS & ELEVATIONS

Task 1 – Draw the net of the following 3D shapes.

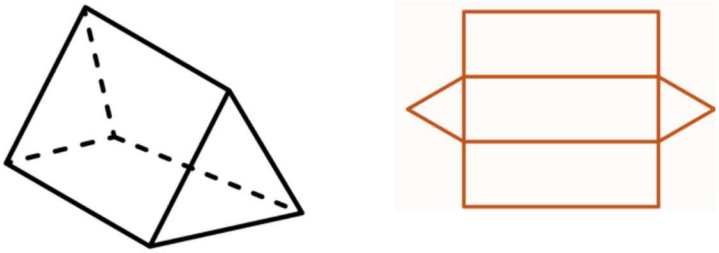
1)



2)



3)



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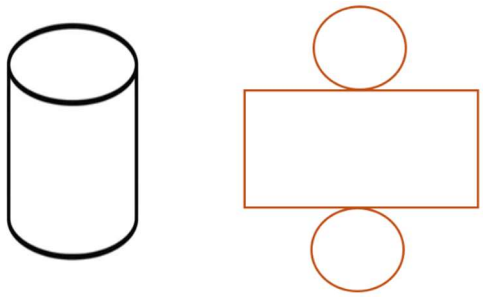

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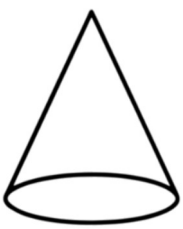
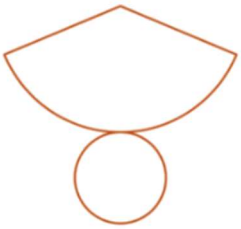
5)





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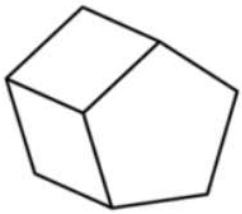
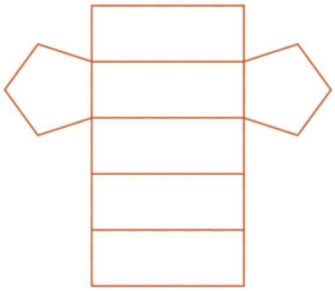
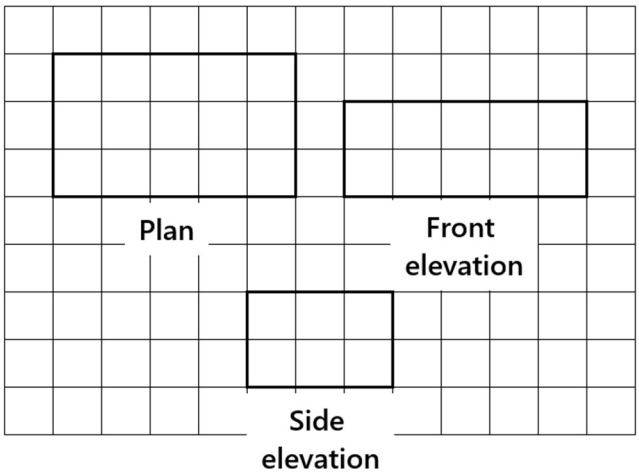
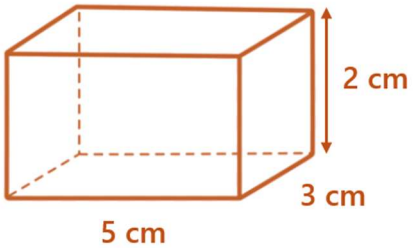




Task 2 – The following diagrams show the plan, front elevation and side elevation of 3D shapes drawn on centimetre grids. Draw a sketch of each solid shape and label the dimensions.

7)





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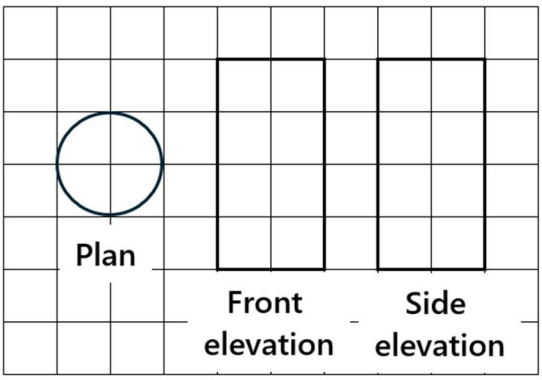

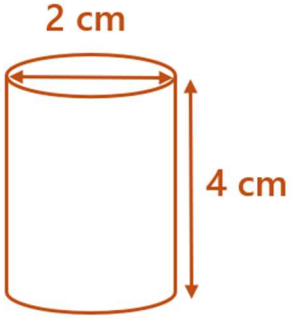

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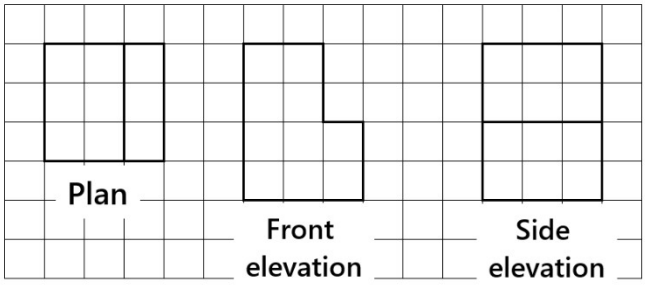
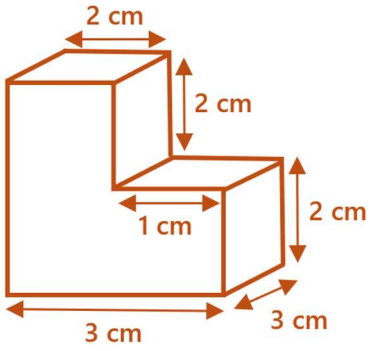
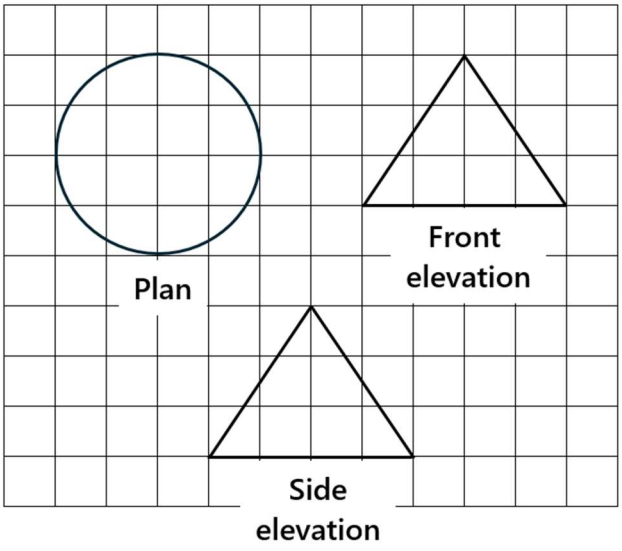
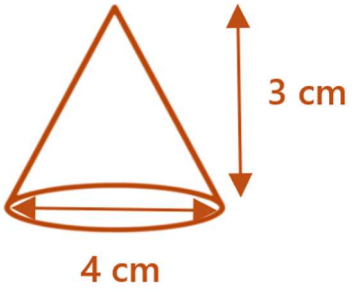
9)





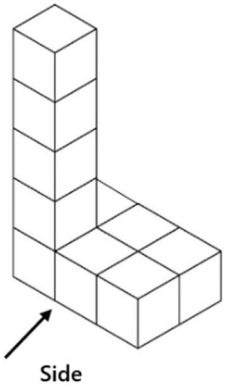
10)

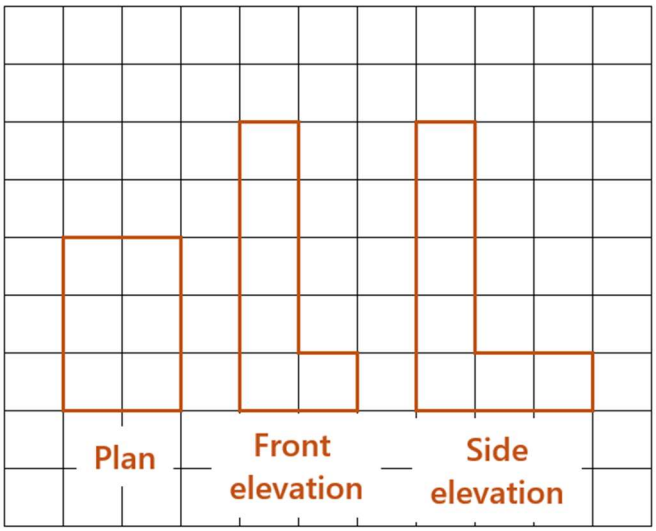




Task 3

11) A solid is made from centimetre cubes.
Use the centimetre grid below to draw the plan, front elevation and side elevation of the solid.





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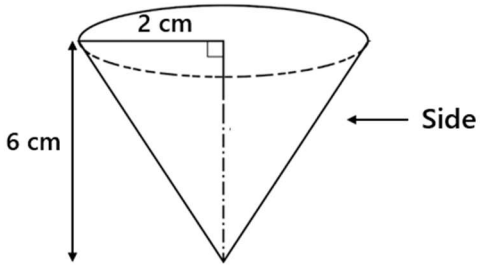
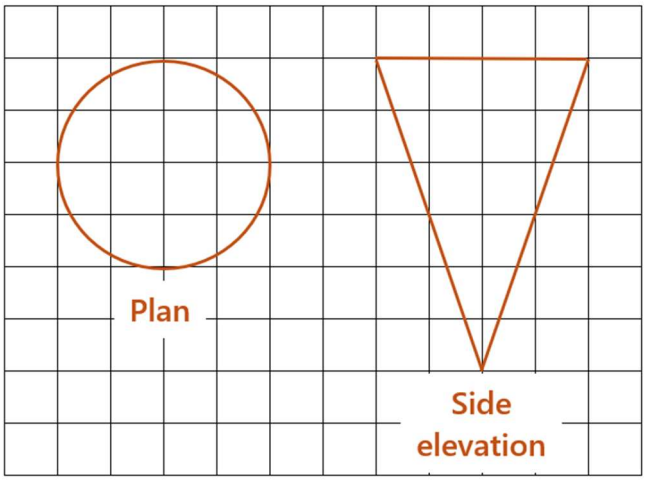
12) The diagram of a cone is shown. The cone has a perpendicular height of 6 cm. The radius of the base of the cone is 2 cm. Use the centimetre grid below to draw the plan and side elevation of the cone.

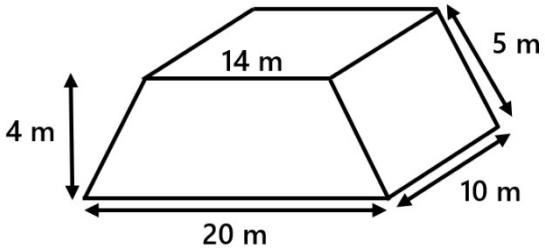




13) A trapezium-prism is shown below.
The solid has:

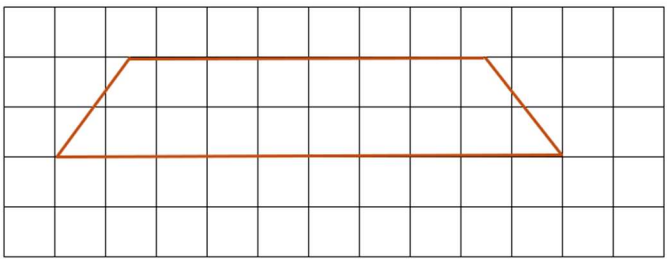
- A height of 4 m
- Two parallel sides of 14 m and 20 m
- A width of 10 m
- A diagonal edge of 5 m

The sides of the prism are rectangles.

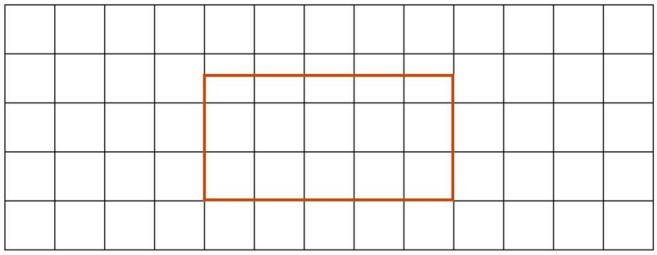


Use the centimetre grids below to draw the front elevation and side elevation.
Use the scale of 1 cm to 2 m.

Front elevation:
10 cm = 20 m 2 cm = 4 m
7 cm = 14 m



Side elevation:
2.5 cm = 5 m
5 cm = 10 m



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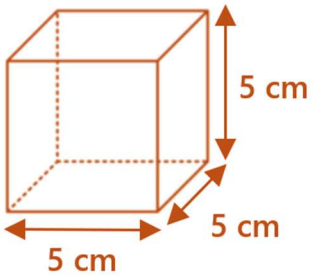
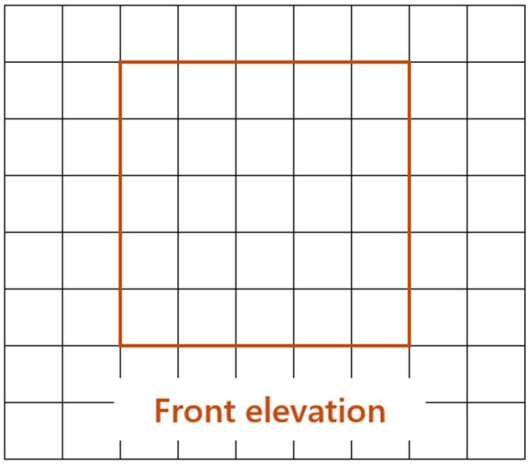
14) Each side of a cube has an area of 25 cm^2.

a. Draw a sketch of the cube, labelling the dimensions.

$Side\ length = \sqrt{25} = 5\ cm$



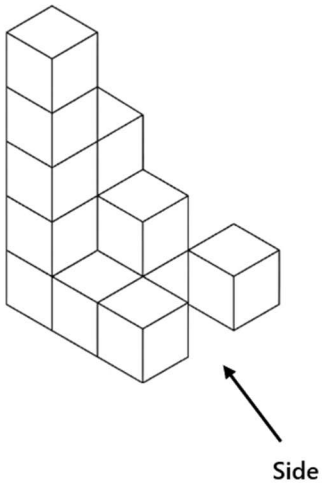
b. Use the centimetre grid below to draw the front elevation of the cube.

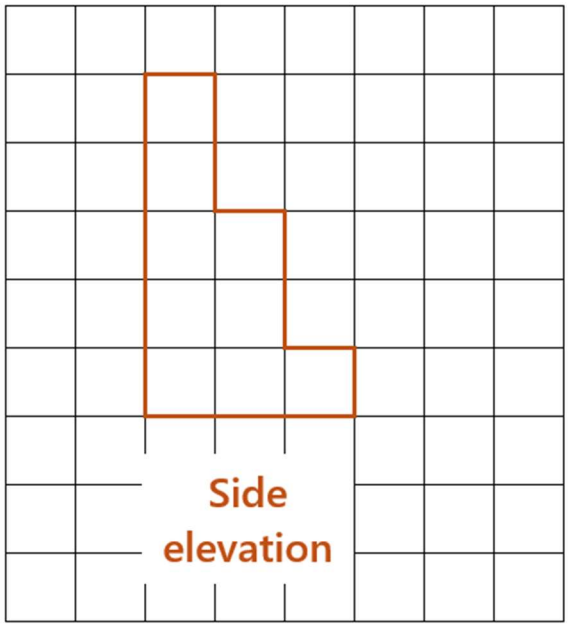


Challenge

15) A solid shape is made from centimetre cubes.

Use the centimetre grid below to draw the side elevation of the shape.





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