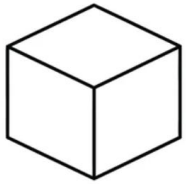
NETS, PLANS & ELEVATIONS

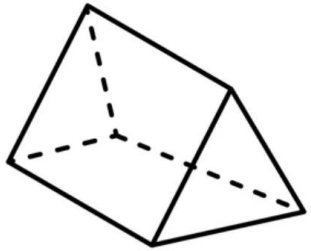
Task 1 – Draw the net of the following 3D shapes.

1)

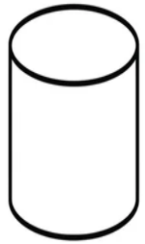


2)

3)

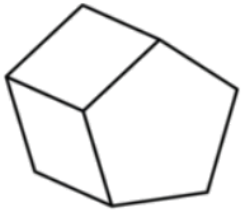


4)



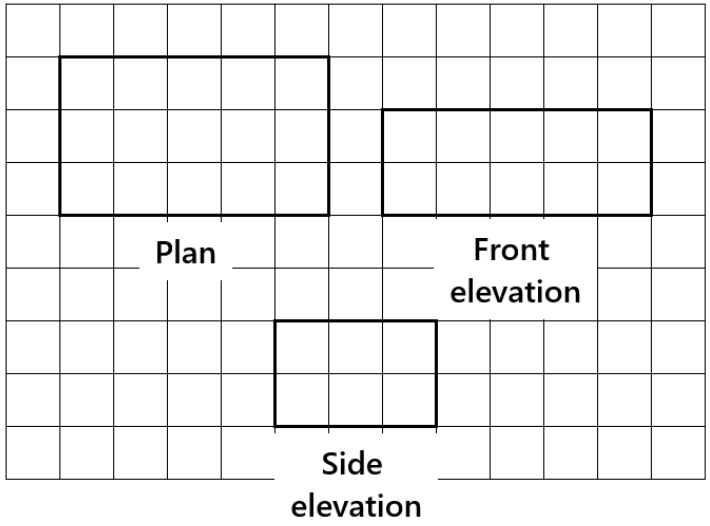
5)

6)

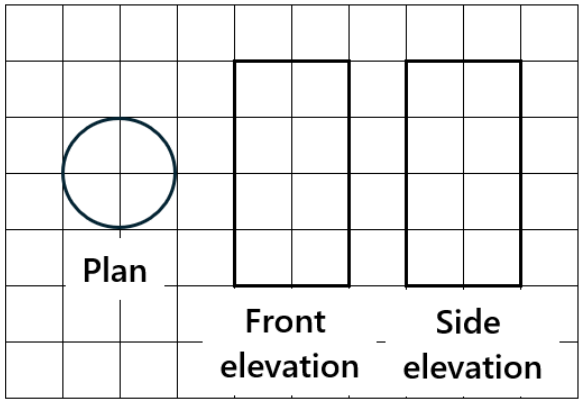


Task 2 – The following diagrams show the plan, front elevation and side elevation of 3D shapes drawn on centimetre grids. Draw a sketch of each solid shape and label the dimensions.

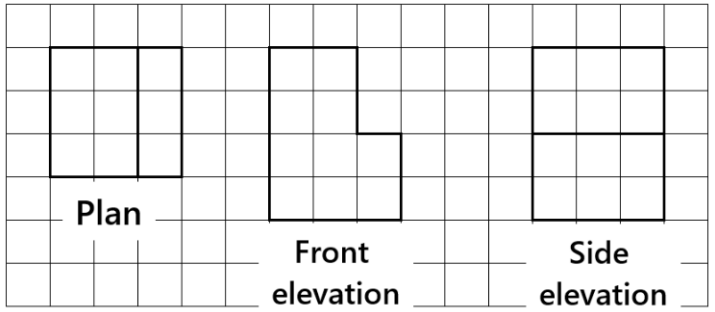
7)



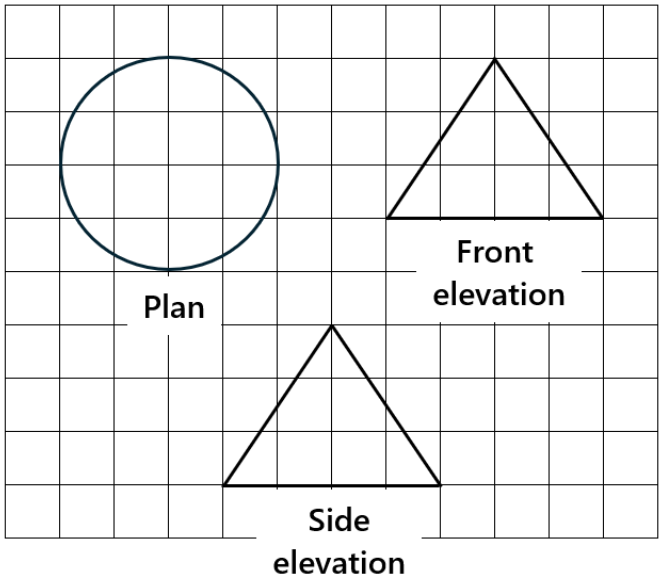
8)



9)

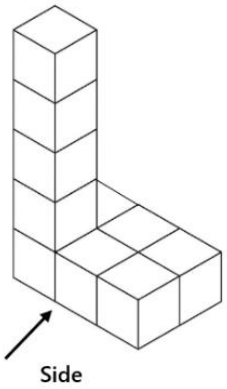


10)

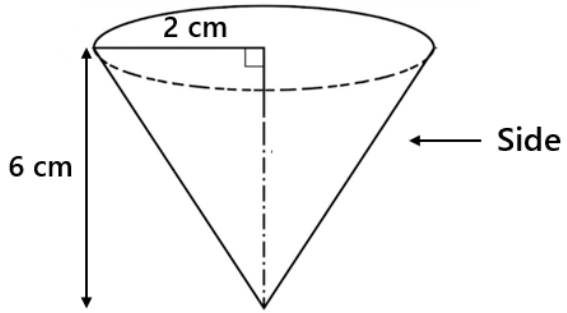


Task 3

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.



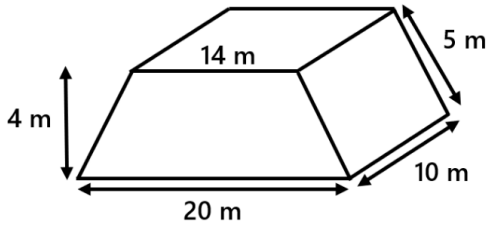
12) The diagram of a cone is shown. The cone has a perpendicular height of 6 cm. The radius of the base of the cone is 2 cm. Use the centimetre grid below to draw the plan and side elevation of the cone.



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:

Side elevation:

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

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

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.