Planner

Plans and elevations

- Drawing plans and elevations of 3-D shapes
- Identifying nets of cubes and cuboids

Keywords

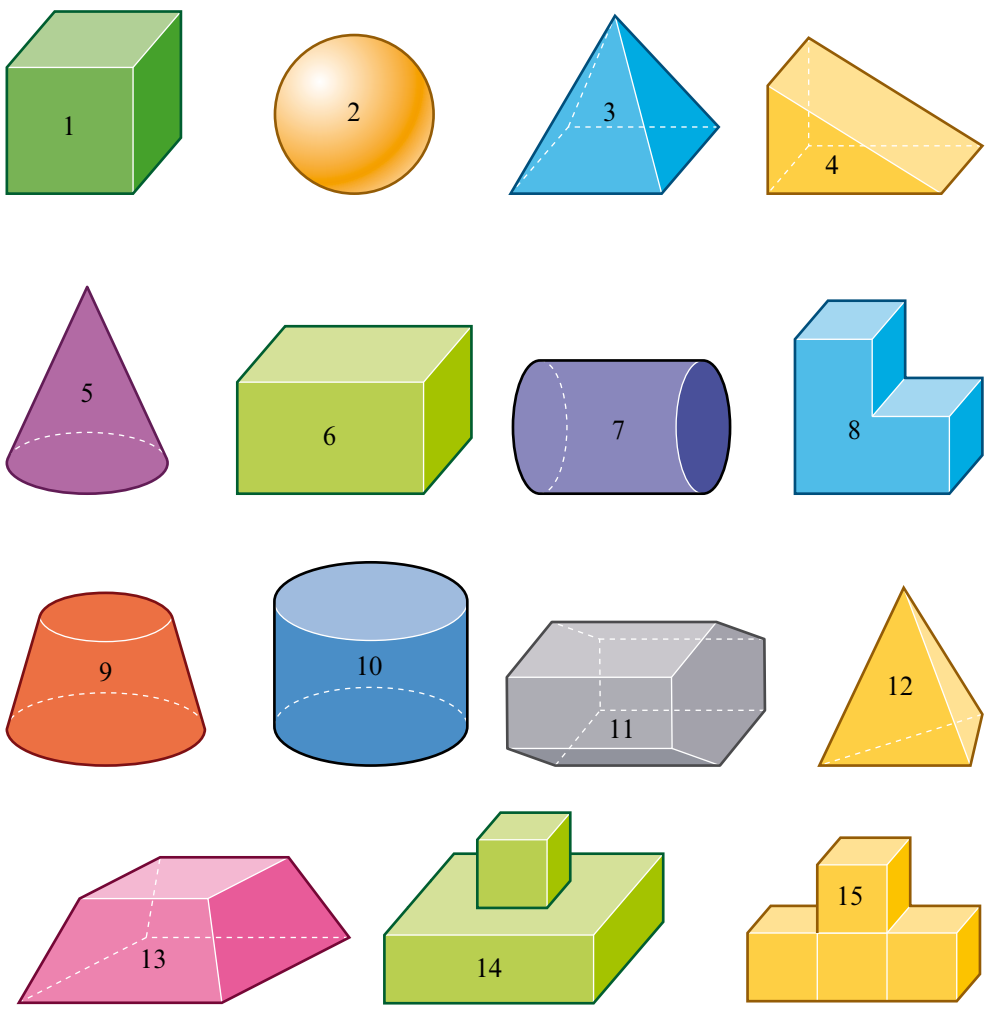
You should know

explanation 1

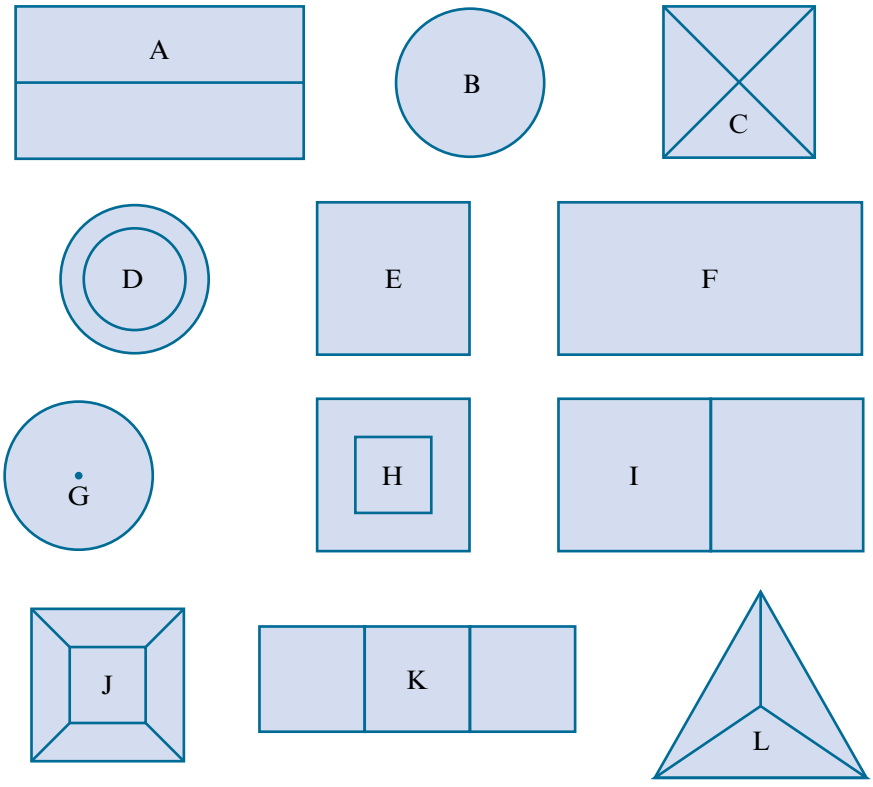
online

1 Which of these 3-D shapes are prisms?

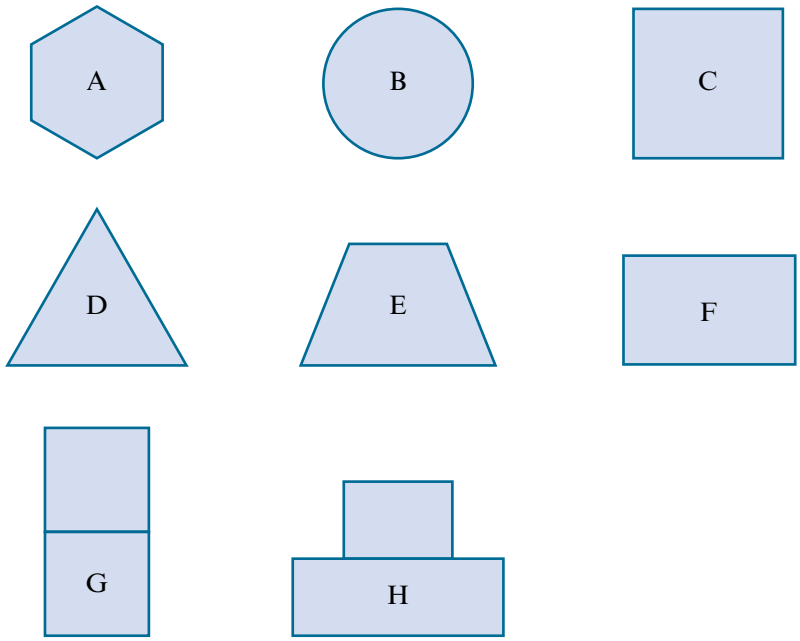
A prism has the same cross-section at any point along its length.



2 Which of the 3-D shapes in question **1** match to each plan below?



3 Which of the 3-D shapes for question **1** match to each side elevation below? Each elelvation shows the shape as seen from the right.

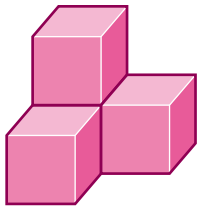


4 Each diagram shows a 3-D shape made from cubes.

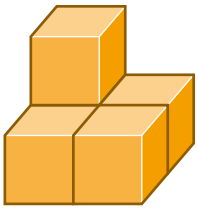
i Draw a plan of each shape.

ii Draw a side elevation of each shape, as seen from the left.

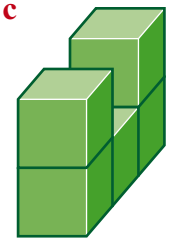
a



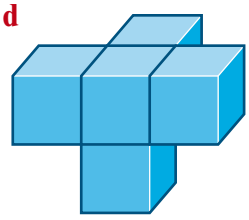
b



c



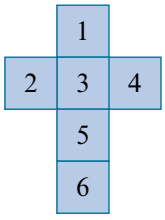
d



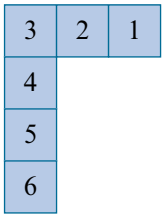
explanation 2a explanation 2b explanation 2c

5 **a** Which of these are nets of a cube?

A

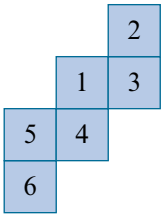


B

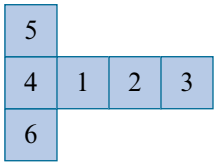


C

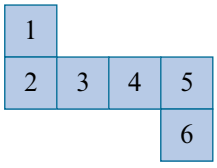
D



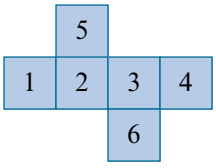
E



F



G



b Look at your answers to part **a**. Imagine that each of those nets is folded to make a cube. For each net, which face would be opposite face 1 when folded?

6 There are 11 possible nets of a cube.

a How many can you find? Draw them.

b Which of the nets will tessellate?

c Draw a diagram to show how one of the nets tessellates.

If shapes tessellate, they fit together like tiles to form a repeating pattern with no gaps.

7 Draw two nets for this cuboid.