

# 2

## Geometry

### > 2.1 3D shapes

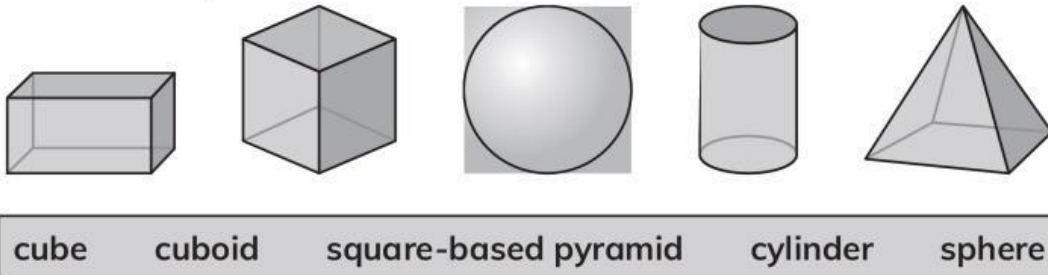
#### Exercise 2.1

#### Focus

curved surface edge  
face vertex, vertices

#### Worked example 1

Match these shapes to their names.



I know a sphere because it's like a ball.

I know a cube because it has six faces that are the same.

A cylinder can roll.

There is a shape with a vertex at the top.

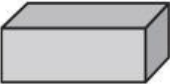

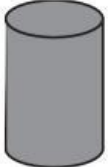
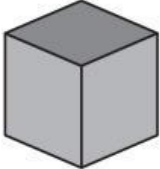
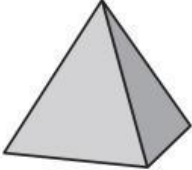
It has a square face. That is a square-based pyramid.

That means that the last one is a cuboid.

Name: \_\_\_\_\_



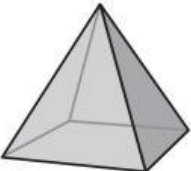
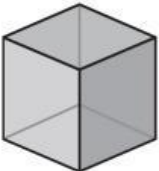
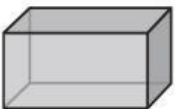
Description: \_\_\_\_\_

2 Draw a ring around the correct word to name each shape.

|   |        |          |         |          |
|---|--------|----------|---------|----------|
|    | sphere | cube     | pyramid | cuboid   |
|   | cube   | cylinder | sphere  | cuboid   |
|  | sphere | cube     | cuboid  | cylinder |
|  | cube   | cuboid   | pyramid | sphere   |
|  | cuboid | sphere   | pyramid | cube     |



- 4 Complete the number of faces, edges, curved surfaces and vertices in this table.

| Shape   | Faces | Edges | Curved surfaces | Vertices |
|---|-------|-------|-----------------|----------|
|    | 0     |       |                 | 0        |
|   |       |       |                 | 0        |
|  | 5     | 8     |                 |          |
|  |       |       |                 | 8        |
|  |       | 12    |                 |          |

**Practice**

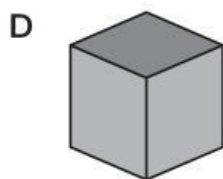
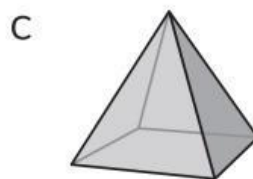
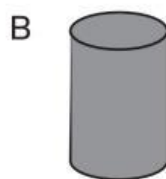
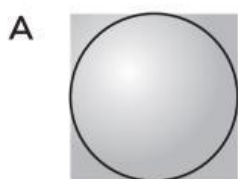
- 5 Tony has a 3D shape.

One face of the shape is a square.

What could the shape be? \_\_\_\_\_



- 6 a What am I? Write the name under the picture.



- b I have more than 2 faces.

None of my faces are circles.

I have 1 square face.

Some of my faces are triangles.

What am I?

I am a \_\_\_\_\_

- c I have more than 2 vertices.

I have no triangular faces.

All my faces are the same size.

I have no curved surfaces.

What am I?

I am a \_\_\_\_\_