

3-D Objects and Net structures

CAPS Statement

Space and shape

Properties of 3-D objects.

Look for right angles on the faces of objects.

If the object that you examine has faces with only right angles, then it will be either a cube or a rectangular prism.

Note

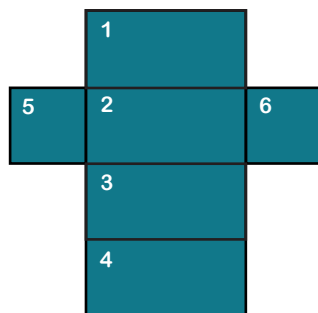
Remember:

Flat shapes have two dimensions : **length** and **width**.

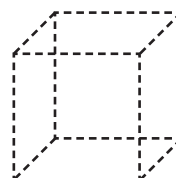
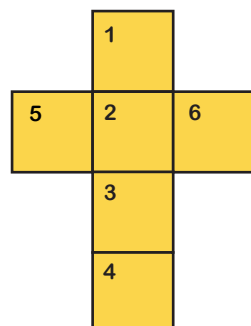
Shapes that take up space have three dimensions; **length**, **width** and **height**.

Drawn patterns that are used to make 3-D shapes are called **nets**.

We live in a three-dimensional world. Every object you see or touch has three dimensions that can be measured: length, width and height. A net can be folded into a three-dimensional object.



A net for a rectangular prism



A net for a cube

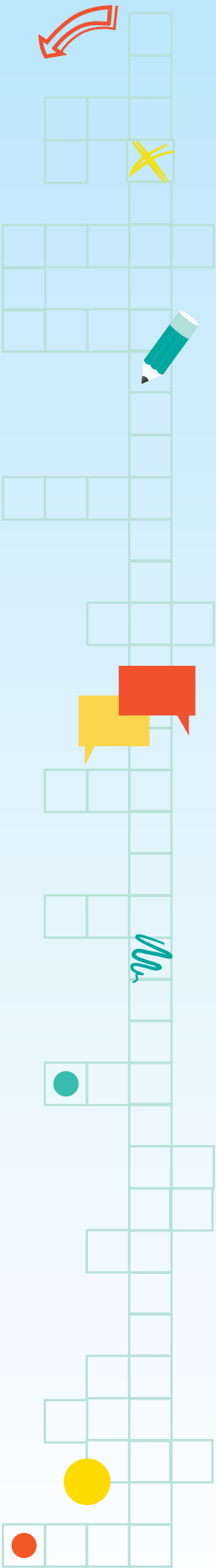
Notice that both a rectangular prism and a cube have the same number of faces and faces with right angles.



Activity

Look at these pictures and complete the tables.

3-D objects; prisms	Name	Net	Number of faces	Number of vertices



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Teacher Tip

Learners' experiences with nets should be varied and should include working from net to solid and from solid to net. When learners are able to "unfold" a solid, they are more likely to understand the relationships between the faces.

