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## Let's explore 3-D shapes!

## Learning Objective:

To identify the edges, vertices and faces of 3-D shapes.

## STARTER

Imagine you are looking straight down at two 3-D shapes.

This is what you see. What shapes might they be?


## STARTER

Did you get them right? Don't worry if you didn't - they could have been other shapes.

square-based pyramid

cylinder



Can you think of a sentence which describes a difference between 2-D and 3D shapes?

Was your sentence anything like this?

## 2-D shapes are flat and 3-D shapes are solid.


flat

solid

How could we find and describe differences between these shapes?


## You might have

 thought of lots of ways of finding and describing differences between these shapes. Here's one way:These shapes all have flat faces. We can count the number of flat faces shapes have.


How many flat faces does a cube have?

## Cubes have six faces.




This triangular prism is different to the cube because it has a different number of faces.
How many faces does it have?
Does it have more or fewer faces than a cube?

We can also find differences between shapes by counting the corners. The mathematical name for corners of shapes is vertices.


## corner $=$ vertex

## corners $=$ vertices

Triangular prisms have five faces.

It has one fewer face than a cube.


Cubes have eight vertices. One way you could check is by putting a finger on each vertex.
You might need a friend to help you!



## Triangular prisms have six vertices.



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