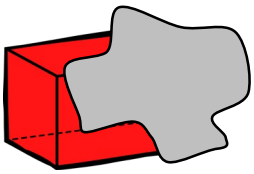
Count faces on 3D shapes

Problem solving and reasoning cards:

Part of the 3D shape is hidden.
Rob complete the sentences.

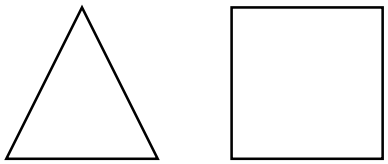


I am a _____. I has ____ faces.

The 2D shapes that I an see on the faces are

_____ and _____.

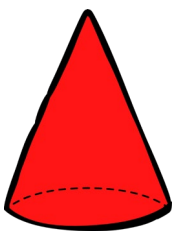
Here are the 2D shapes that you are able to see on a 3D shape.



What shape am I?

Explain how you know.

Describe this shape using the words '**faces**' and '**surfaces**'.



I have a 3D shape with three rectangular faces and two triangular faces.

What shape does Asha have?

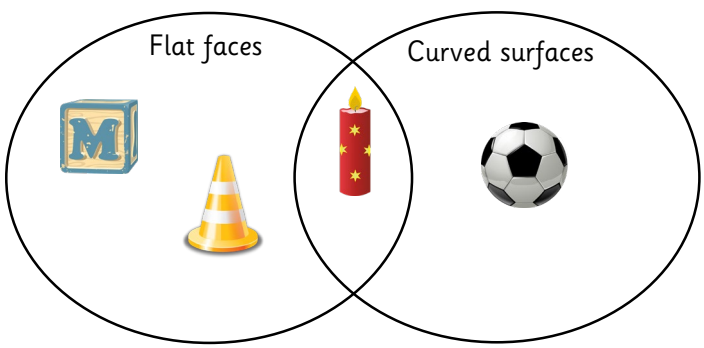
Describe the faces of different 3D shapes to a partner. Take turns.

Each face on a 3D shape is a 2D shape.

Always, sometimes or never?

Explain how you know.

Jack has sorted these 3D shapes.
Spot his mistake.

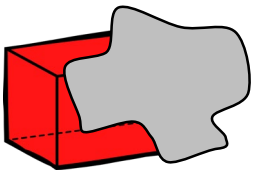


Add another shape to each side.

Count faces on 3D shapes

Problem solving and reasoning cards:

Part of the 3D shape is hidden.
Rob complete the sentences.

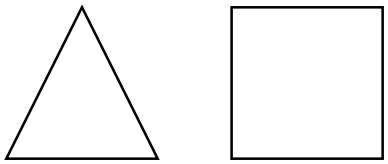


I am a cuboid. I has 6 faces.

The 2D shapes that I an see on the faces are

rectangles and squares.

Here are the 2D shapes that you are able to see on a 3D shape.

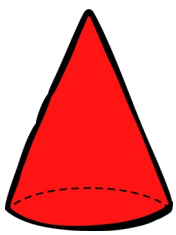


What shape am I?

Explain how you know.

Square-based pyramid or triangular prism.
Pyramid = 4 triangular faces & 1 square base.
Triangular prism = 3 square faces & 1 triangular face.

Describe this shape using the words '**faces**' and '**surfaces**'.



A cone has 1 circular face and 1 curved surface.

I have a 3D shape with three rectangular faces and two triangular faces.

What shape does Asha have?

Triangular prism.

Describe the faces of different 3D shapes to a partner. Take turns.

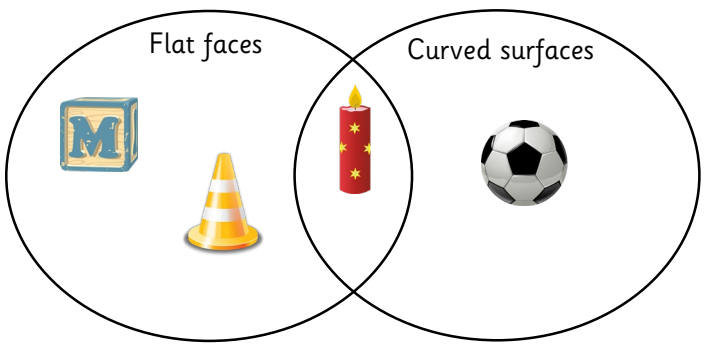
Each face on a 3D shape is a 2D shape.

Always, sometimes or never?

Explain how you know.

Sometimes. Curved surfaces do not show 2D shapes, e.g. sphere.

Jack has sorted these 3D shapes.
Spot his mistake.



The cone should be in the middle section of the Venn diagram as it has both flat faces and curved surfaces.