



LO: I can recognise and describe the properties of 2-D and 3-D shapes using appropriate vocabulary.

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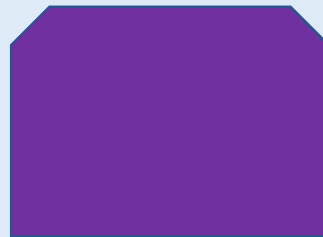
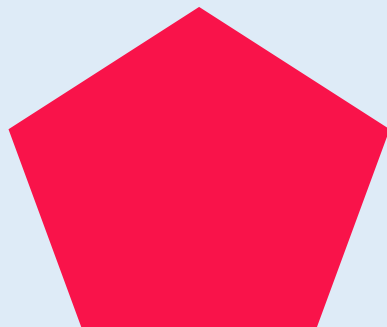
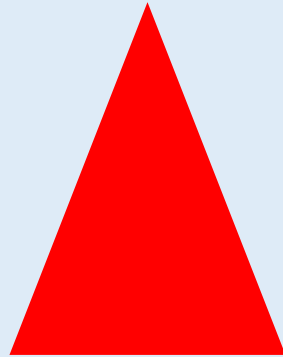
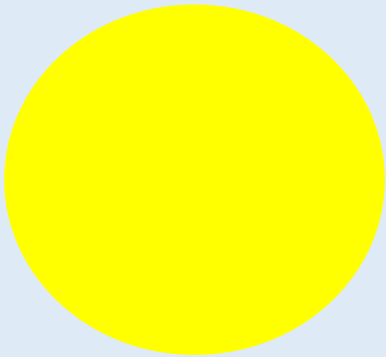
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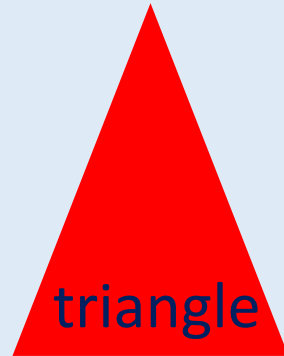
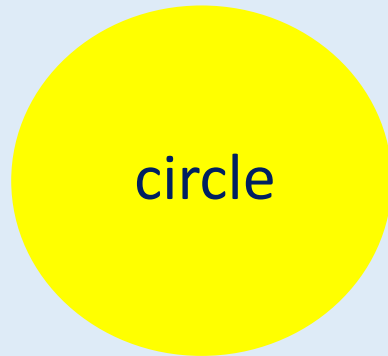
Teach

A **2-D** shape is a form or an outline which is **flat**.
The 'D' stands for the word **dimensional**.



Teach

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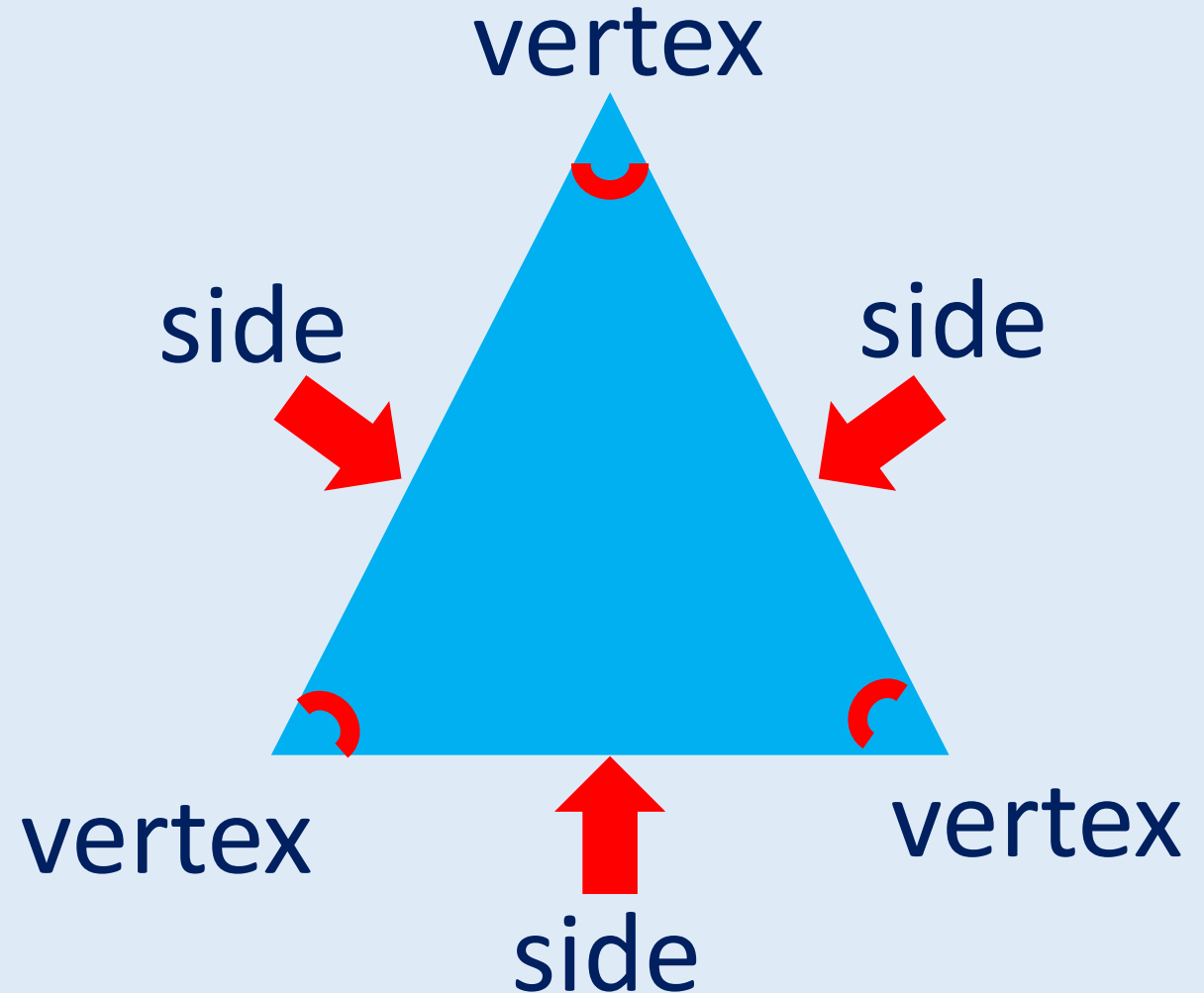
Teach

A **2-D** shape can sometimes be described as a **polygon** and/or a **quadrilateral**.

A **polygon** is the name given to all 2-D shapes with **straight sides** that are **fully closed** (all of the sides are joined up). The sides must be **straight**.

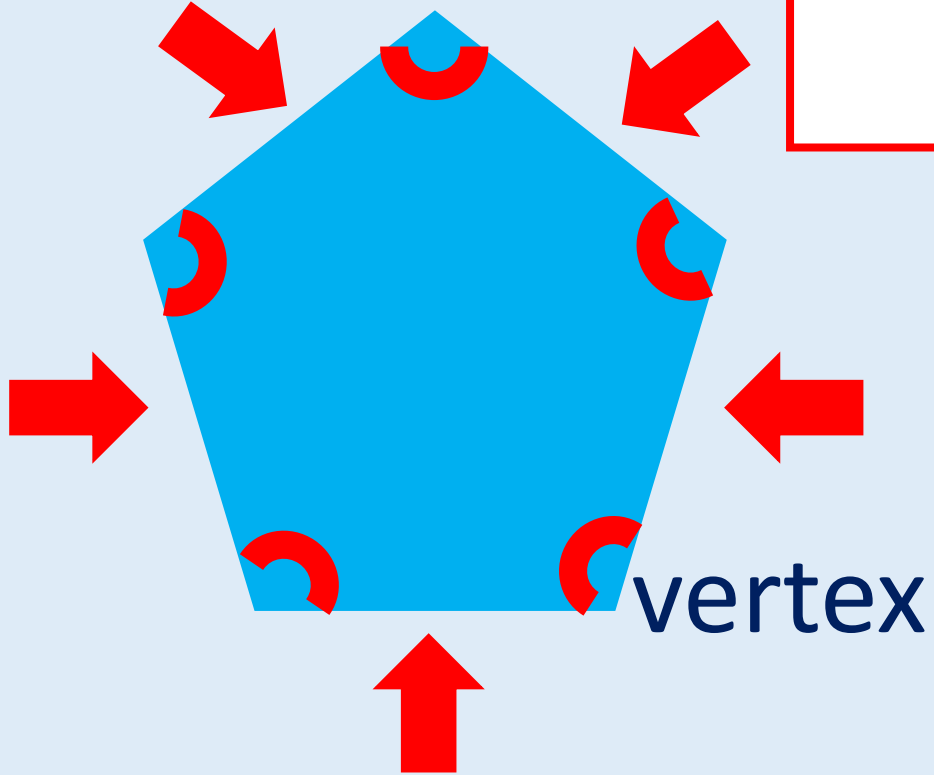
A **quadrilateral** is the name given to all 2-D shapes with **four straight sides** and **four vertices (corners)**.

We can use the **properties** of a shape to describe or identify it. The **properties** for 2-D shapes include the **number of sides** and **vertices (corners)**.



Model

side



I can describe this 2-D shape by identifying certain **properties**.

It has 5 **sides** and 5 **vertices**.
I know this means it is a **pentagon**.

Apply

Draw a **2-D** shape for each set of properties. Is there more than one possibility?

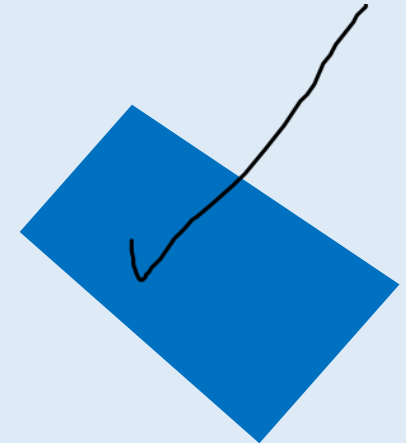
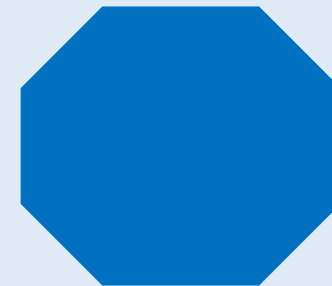
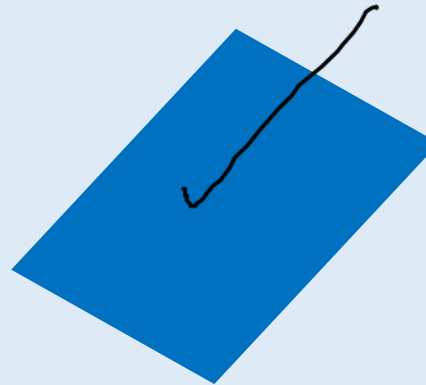
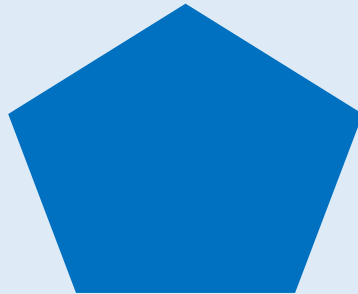
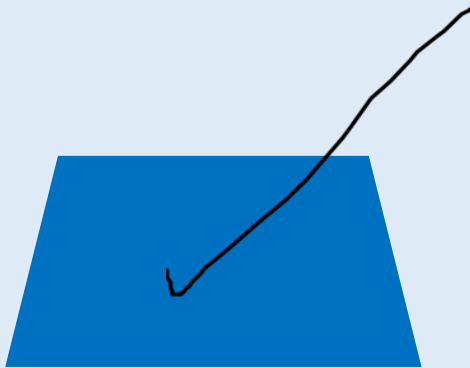
4 equal sides
4 vertices

8 sides
8 vertices

1 curved side

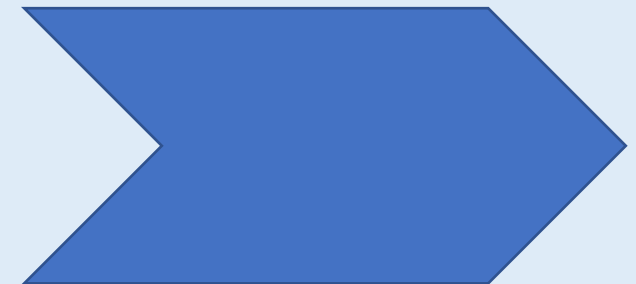
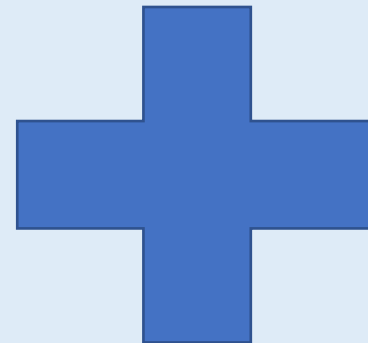
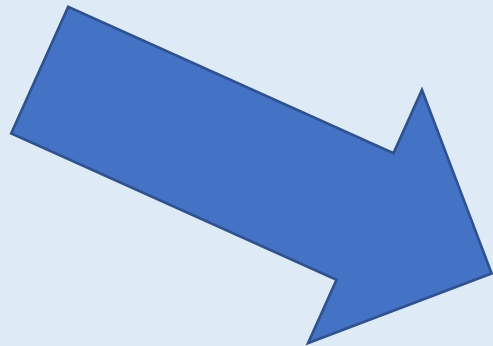
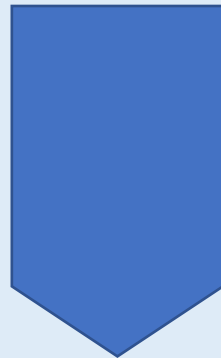
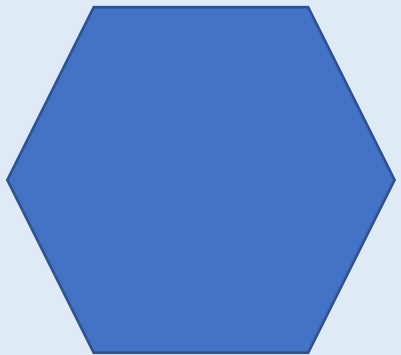
Apply

A **quadrilateral** is the name given to all 2-D shapes with **four straight sides** and **four vertices (corners)**.
Which of these shapes are quadrilaterals?



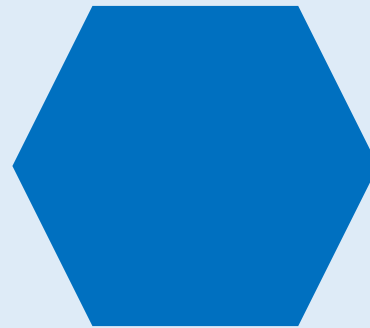
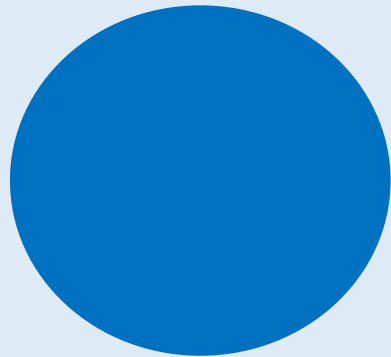
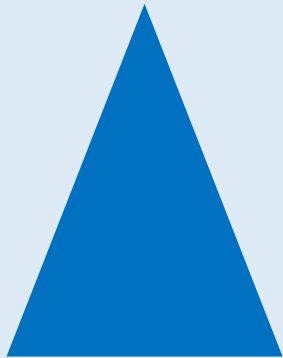
Apply – Problem Solving

Cassie wants to create patterns using hexagons. Which of these 2-D shapes could she use for her patterns?

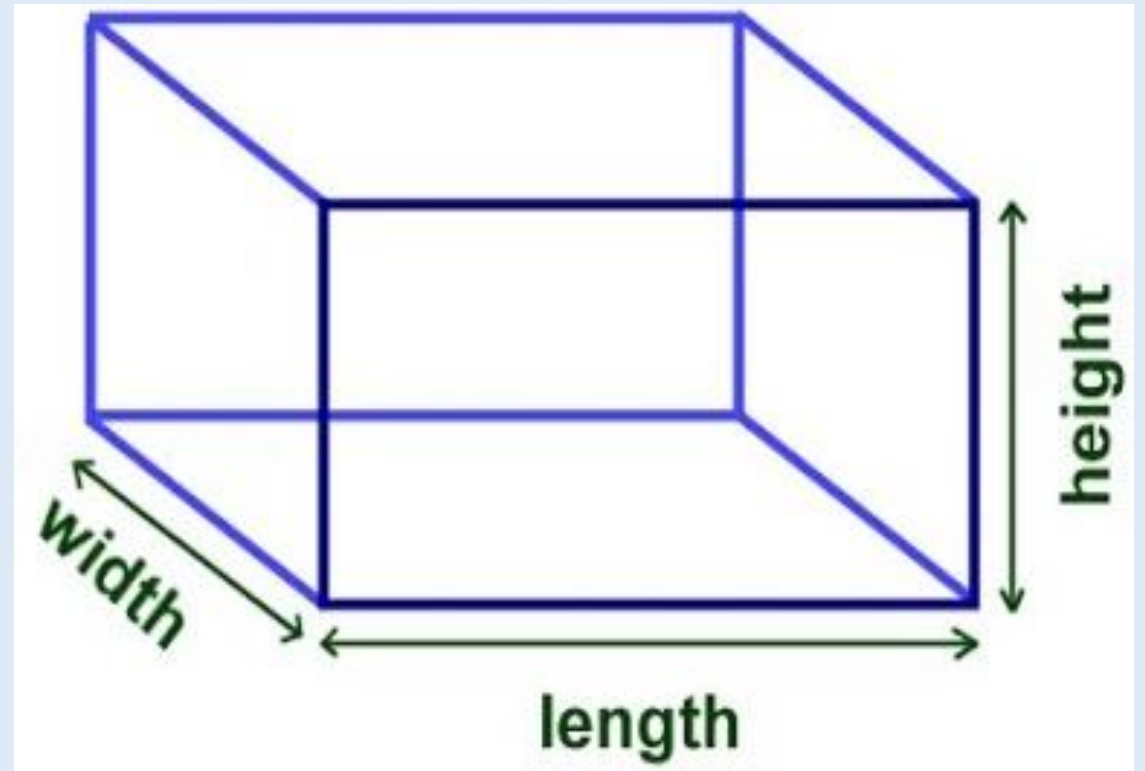


Apply – Reasoning

A **polygon** is the name given to all 2-D shapes with **straight sides** that are **fully closed** (all of the sides are joined up). The sides must be **straight**. Which of these 2-D shapes cannot be classed as a **polygon**? Explain how you know.



A 3-D shape is a **solid** shape. It has a **length**, **width** and **height**. This means they can be seen all the way around. The 'D' stands for the word **dimensional**.



Teach

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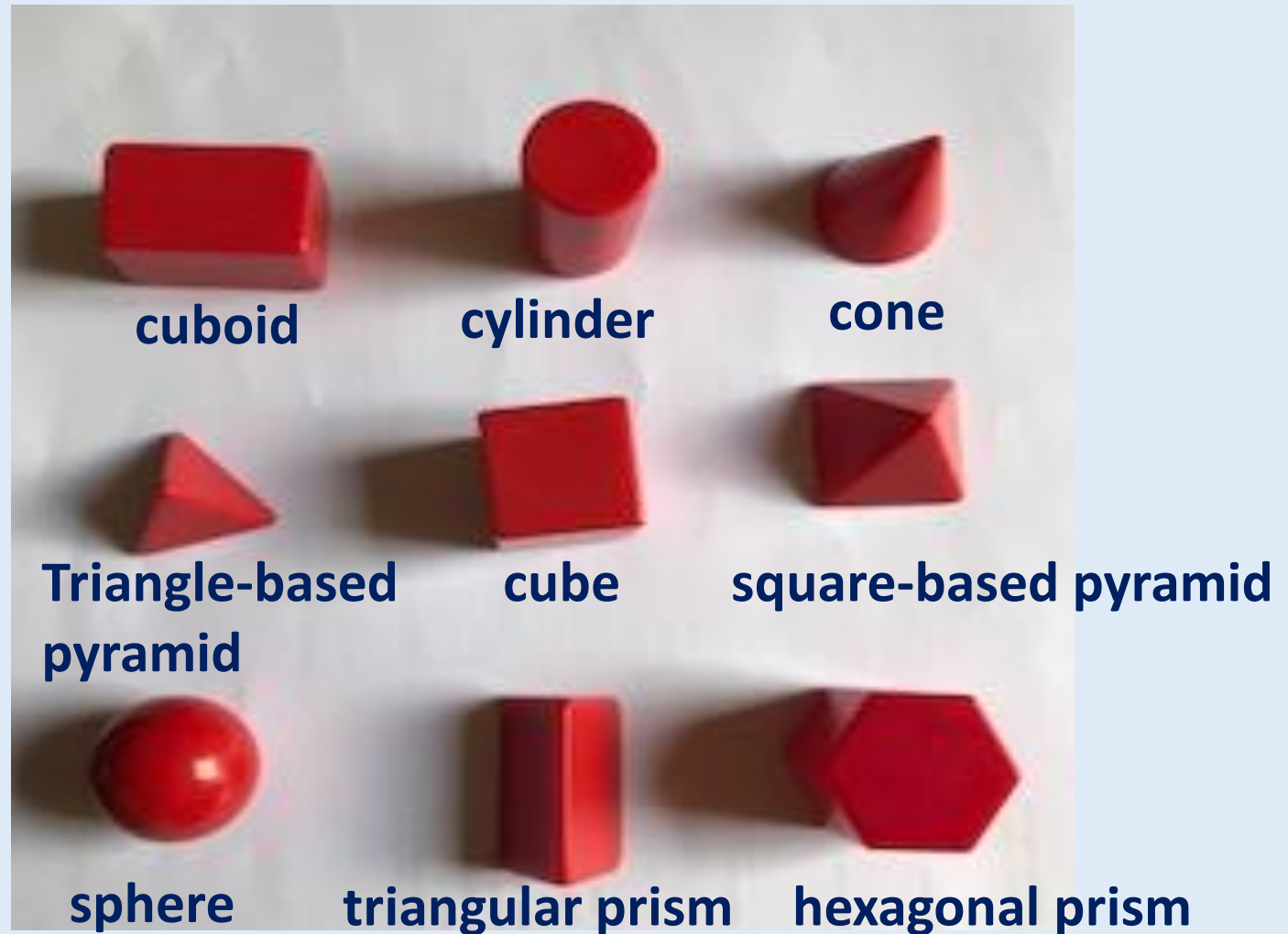
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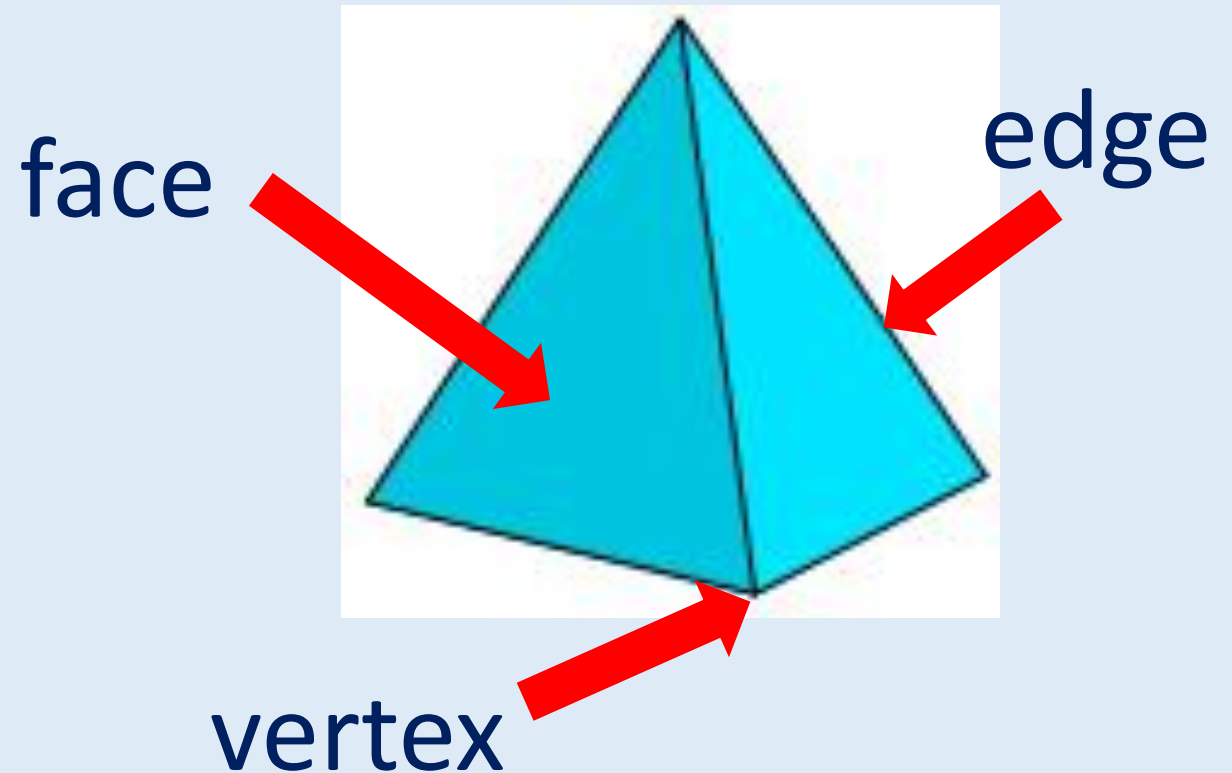
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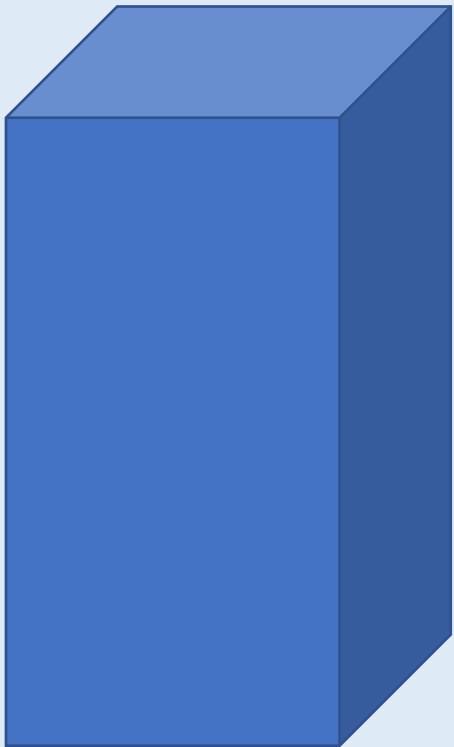
The 'D' stands for the word **dimensional**.



We can use the **properties** of a shape to describe or identify it. The **properties** for 3-D shapes include the number of **edges**, **faces** and **vertices**.



Model



I can describe this 3-D shape by identifying certain **properties**.

It has 6 **faces** (4 which are rectangular and 2 which are square).

I can also describe this shape as having 12 **edges** and 8 **vertices**. It is a cuboid.

Apply

The **properties** for 3-D shapes include the number of **edges**, **faces** and **vertices**.
Complete the following table to describe each shape.

Shape	Numbers of faces	Number of edges	Number of vertices
Cube			
Cylinder			
Square-based pyramid			

Apply – Reasoning

Milly says that each of her cylinder pots have 2 faces, 2 edges and 0 vertices.

Is she correct?

Explain how you know.

