

Learning Reminders

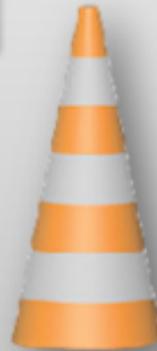
Naming 3-D shapes and identifying their properties.



Cylinder



Pyramid



Cone



Cube



Cuboid



Sphere

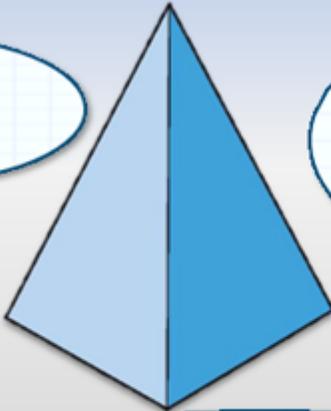
Can you name
each shape?



Learning Reminders

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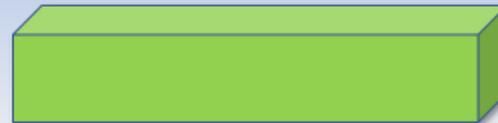
This shape is a **pyramid**.



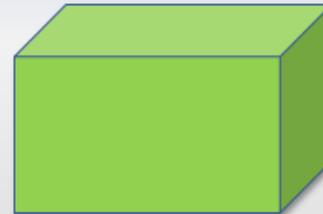
What shapes are its faces? Pyramids can have different shapes on the base but the other faces are **always triangles**.

The Egyptians made buildings in this shape. This shape is called a **square-based pyramid**, just like the Egyptians' pyramids.

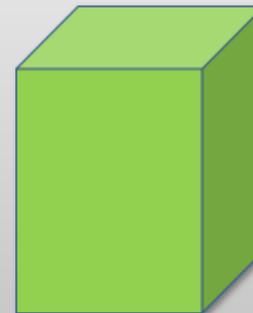
Naming 3-D shapes and identifying their properties.



These are all **cuboids**.



The shapes might look a bit different, but all are cuboids because they have **6 faces which are oblongs and squares**.



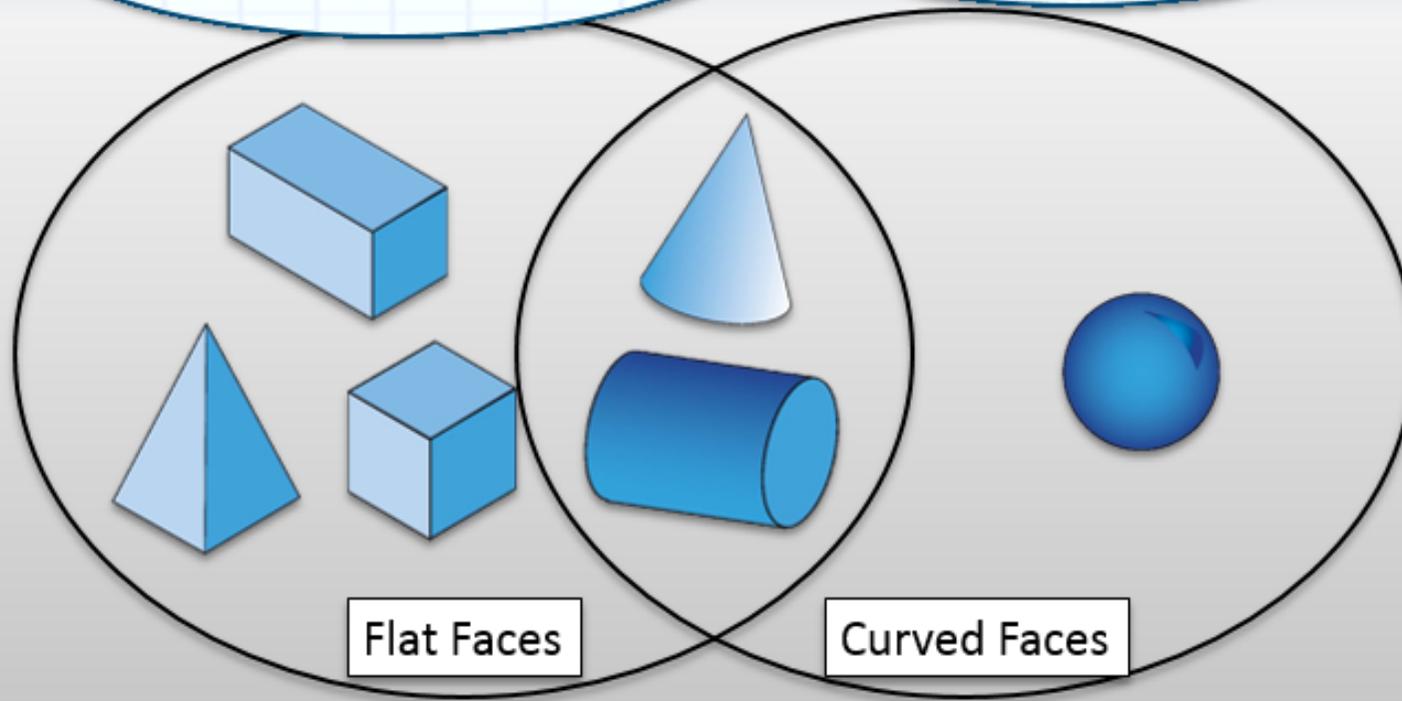
Their **opposite faces** are always the **same shape and size**.

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Naming 3-D shapes and identifying their properties.

These shapes have been sorted into those with flat faces and those with curved faces.

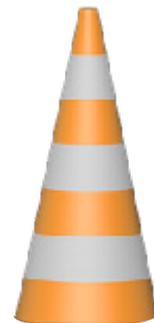
The cylinder and cone have both flat faces and curved faces.



Practice Sheet Mild

Naming 3-D shapes

Can you match the name to the shape?



Sphere

Cube

Cuboid

Cylinder

Square-based pyramid

Cone

Triangular prism

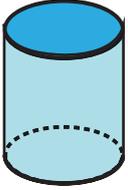
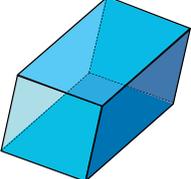
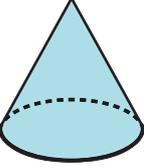
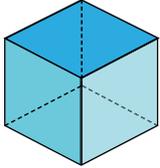
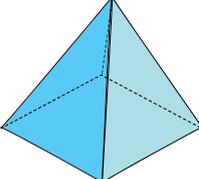
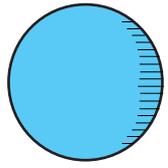
Challenge

1. Write next to the shape how many faces it has.
2. Write next to the shape how many vertices it has.

Practice Sheet Hot

Describe the shapes

Complete the table:

| Shape | Number of faces | Shape of faces | Will it roll, slide or do both? | Number of vertices (corners) |
|---|-----------------|----------------|---------------------------------|------------------------------|
|  | | | | |
|  | | | | |
|  | | | | |
|  | | | | |
|  | | | | |
|  | | | | |

Practice Sheet Answers

Practice Sheet (Mild)



Triangular prism
5 faces
6 vertices



Cube
6 faces
8 vertices



Sphere
1 face
0 vertices



Square-based pyramid
5 faces
5 vertices



Cylinder
3 faces
0 vertices



Cuboid
6 faces
8 vertices



Cone
2 faces
1 vertex

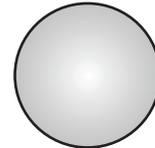
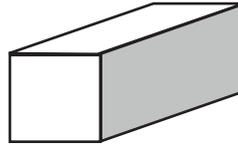
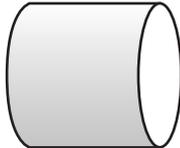
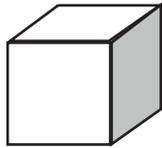
Practice Sheet (Hot)

| Shape | Number of faces | Shape of faces | Will it roll, slide or do both? | Number of vertices (corners) |
|---|-----------------|--|---------------------------------|------------------------------|
|  | 3 | 2 circles and one curved face | both | 0 vertices |
|  | 6 | 6 rectangles (2 of which could be squares) | slide | 8 |
|  | 2 | 1 circle and one curved face | both | 1 |
|  | 6 | 6 squares | slide | 8 |
|  | 5 | 1 square and 4 triangles | slide | 5 |
|  | 1 | 1 curved face | roll | 0 vertices |

A Bit Stuck? Shape hunter

Things you will need:

- A camera/phone



What to do:

- Choose one of these shapes.
- Try to find as many objects that shape as you can.
- If you can, take photographs of them.



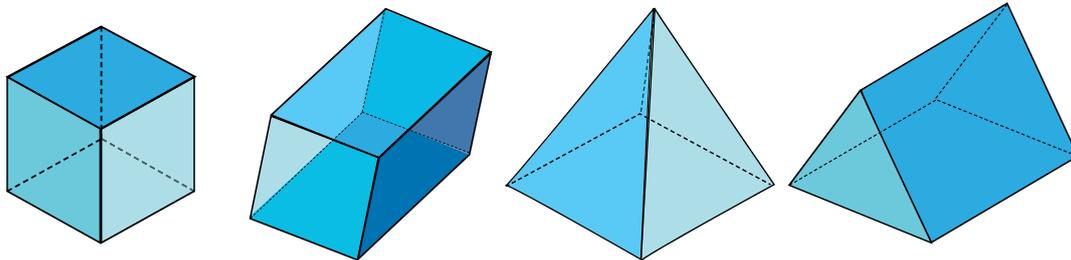
- Try to find as many different-looking examples of that shape as you can.
- Describe them to an adult.
- Now choose another shape and repeat.

Investigation Skeletons

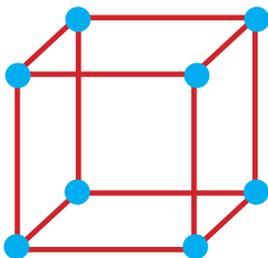
You will need:

- Straws, lolly sticks or dry spaghetti
- Plasticine, Blu-tac or mini-marshmallows
- Scissors

- Choose one of these shapes.



- You are going to use straws/ lolly sticks/ dry spaghetti to make a skeleton of the shape, using plasticine/ Blu-tac / mini-marshmallows to join them together!
- Can you work out how many straws you are going to need?
Are they all going to be the same length or different lengths?
- How many blobs of plasticine etc. will you need?



- Repeat with at least one more shape.