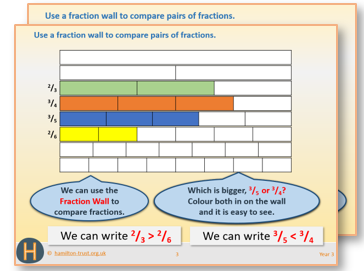


Week 10, Day 4

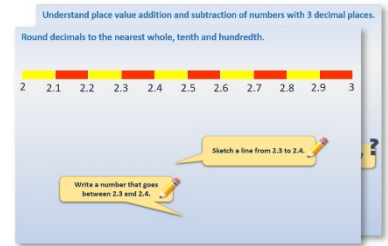
3-D shape (1)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

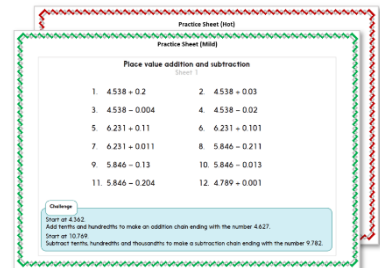
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.



2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either **Mild** (easier) or **Hot** (harder)!
Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at [A Bit Stuck?](#)



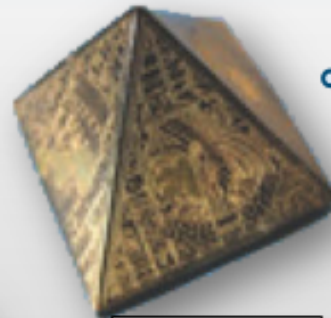
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Practical Activity**...

Learning Reminders

Naming 3-D shapes and identifying their properties.



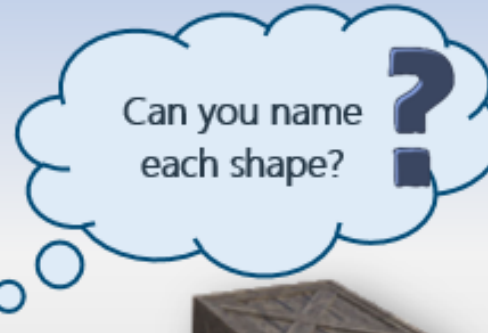
Cylinder



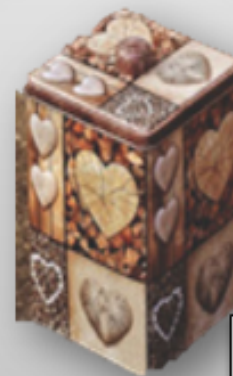
Pyramid



Cone



Cube



Cuboid



Sphere

Learning Reminders

Naming 3-D shapes and identifying their properties.

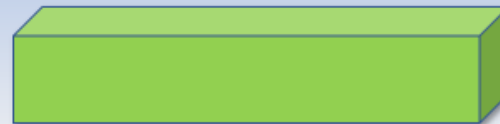
This shape is a
pyramid.



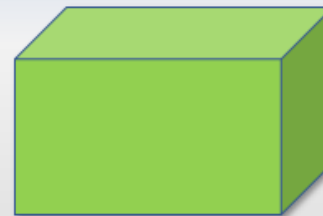
What shapes are its
faces? Pyramids can have
different shapes on the
base but the other
faces are **always triangles**.

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

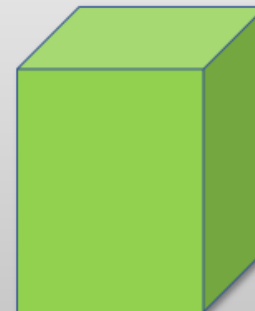
Naming 3-D shapes and identifying their properties.



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**.



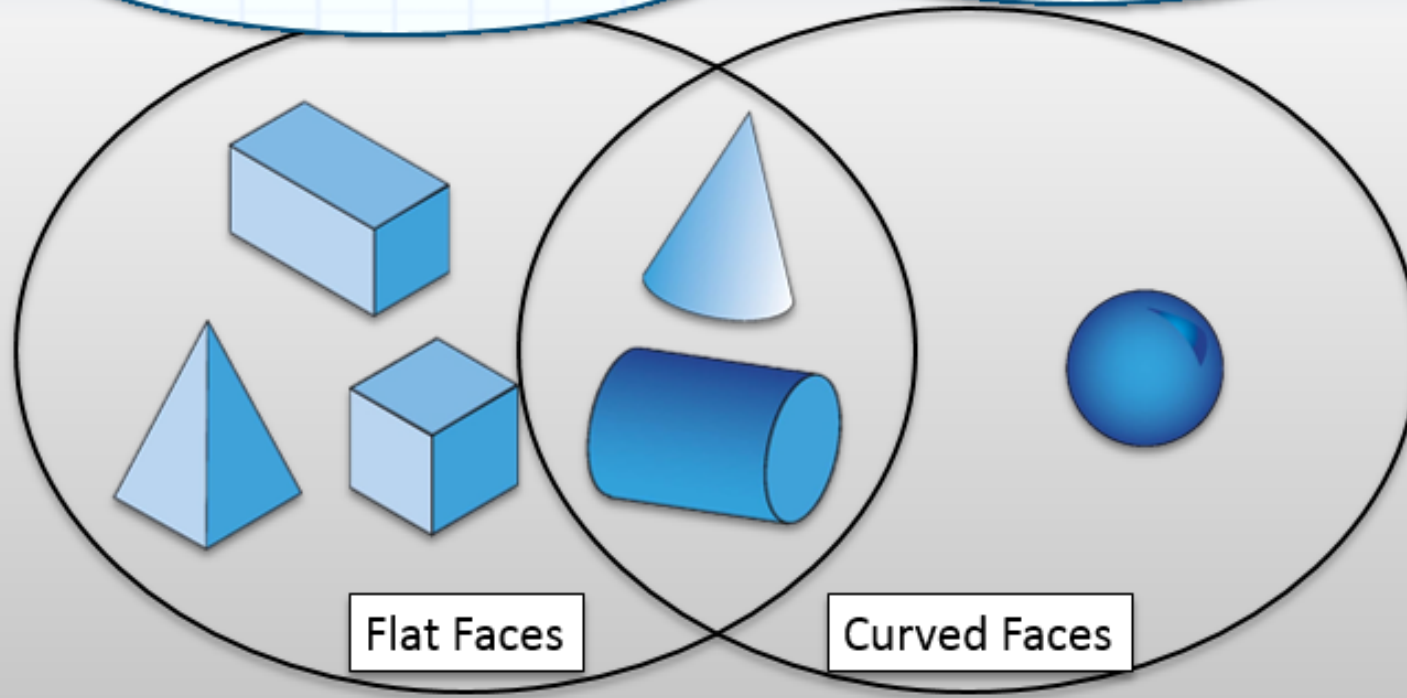
Their **opposite faces** are
always the **same shape
and size**.

Learning Reminders

Naming 3-D shapes and identifying their properties.

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

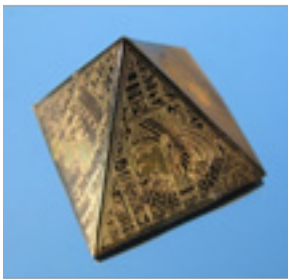
The cylinder and cone have both flat faces and curved faces.



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

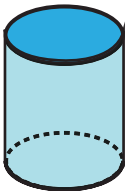
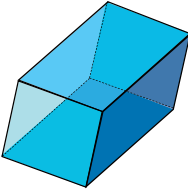
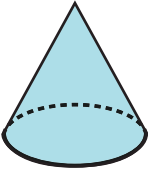
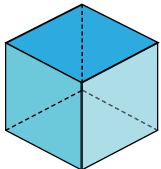
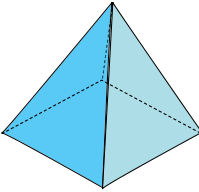
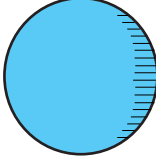
Challenge

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

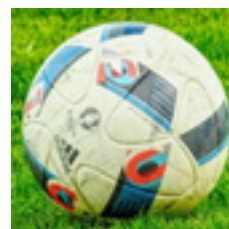
Practice Sheet (Mild)



Triangular prism
5 faces
6 vertices



Cube
6 faces
8 vertices



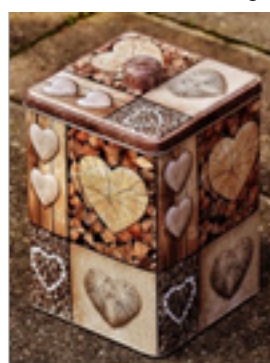
Sphere
1 face
0 vertices



Square-based pyramid
5 faces
5 vertices



Cylinder
3 faces
0 vertices

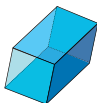
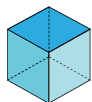
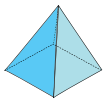
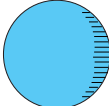


Cuboid
6 faces
8 vertices



Cone
2 faces
1 vertex

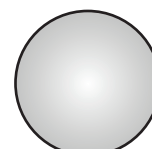
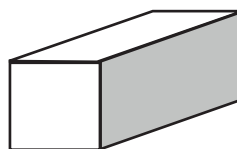
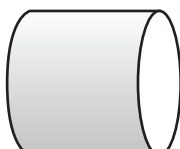
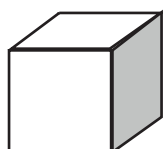
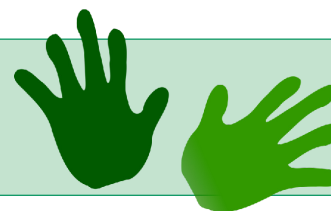
Practice Sheet (Hot)

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.

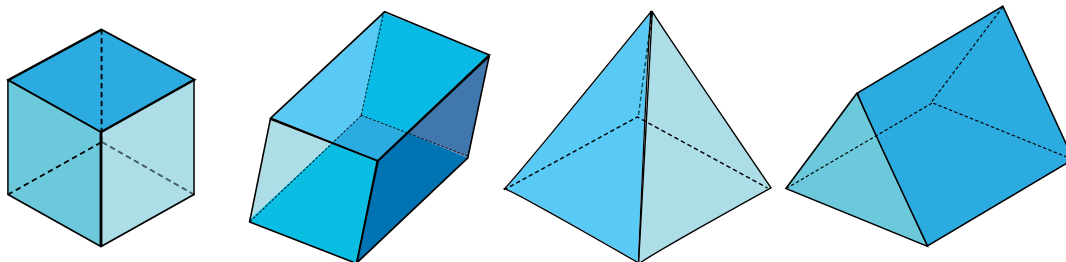


- Try to find as many different-looking examples of that shape as you can.
- Describe them to an adult.
- Now choose another shape and repeat.

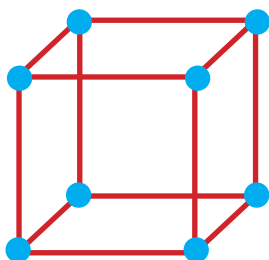
Investigation Skeletons

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.