Year 2
Maths
02/07/2020

Lesson Aims

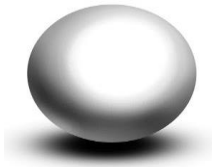
- I can name 3D shapes and talk about what is the same and different about them.
- I can talk about their properties and use the words: **edge**, **face** and **vertices** correctly.

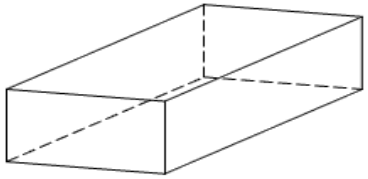
Fluency

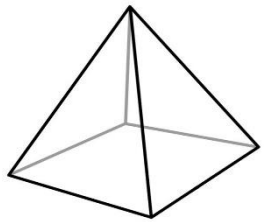
I buy some sweets for 35p and some a bar of chocolate for 25p.
How much money have I spent altogether?

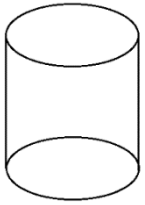
Main Teaching

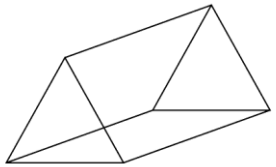
What are these 3D shapes called?

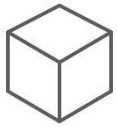






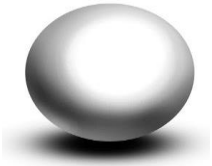




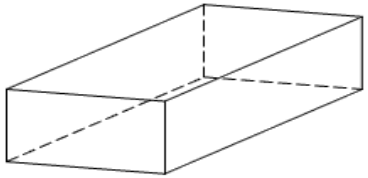


Main Teaching

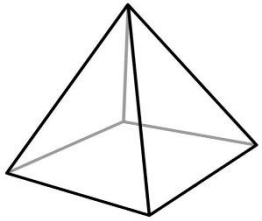
What are these 3D shapes called?



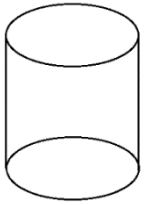
Sphere



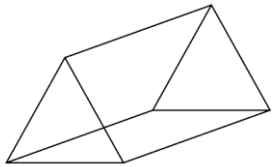
Cuboid



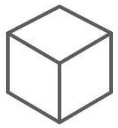
Square based pyramid



Cylinder



Triangular prism

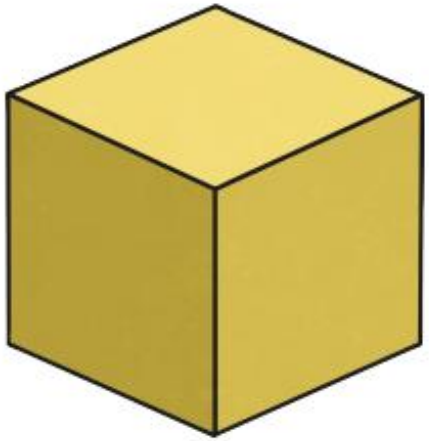


Cube

3D shapes

Lets remind ourselves of the properties of different 3D shapes.

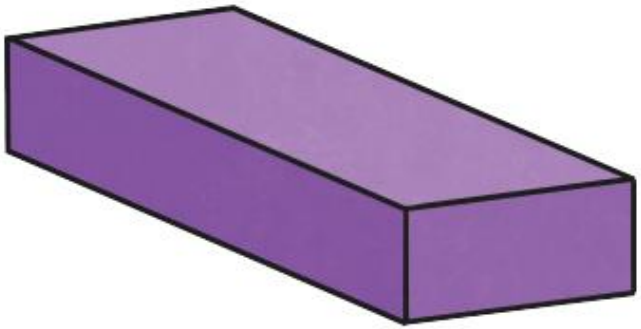
Cube



Cubes have:

- 6 square faces;
- 12 edges;
- 8 vertices;
- edges that are all the same length.

Cuboid



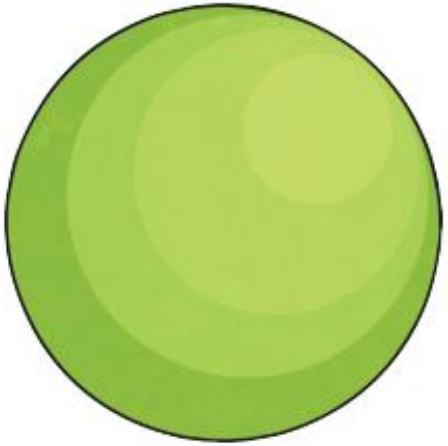
Cuboids have:

- 6 rectangular faces;
- 12 edges;
- 8 vertices;
- edges that are **not** all the same length.

3D shapes

Lets remind ourselves of the properties of different 3D shapes.

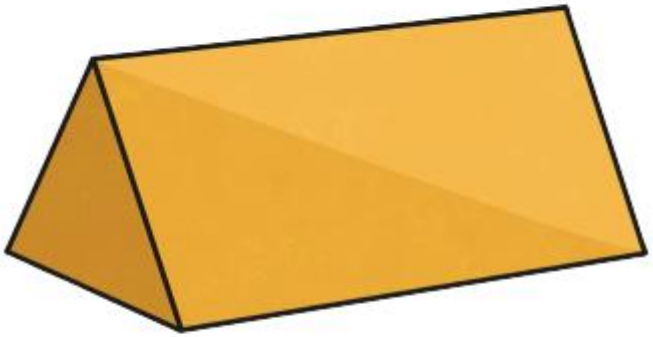
Sphere



Spheres:

- are perfectly round;
- have no edges;
- have no vertices;
- have 1 curved surface.

Triangular Prism



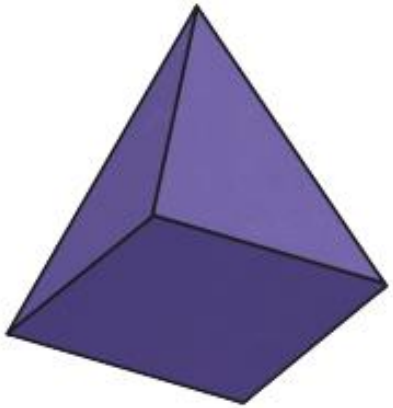
Triangular prisms have:

- 5 faces;
- 2 triangular faces;
- 3 rectangular faces;
- 6 vertices;
- 9 edges.

3D shapes

Lets remind ourselves of the properties of different 3D shapes.

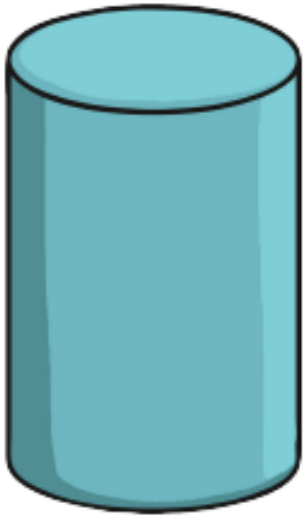
Square-Based Pyramid



Square-based pyramids have:

- a square base;
- 4 triangular faces that make a sharp point;
- 5 faces;
- 5 vertices;
- 8 edges.

Cylinder



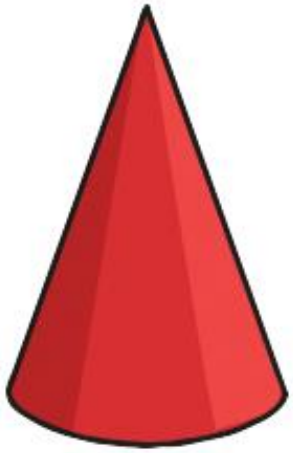
Cylinders have:

- 2 flat and circular faces;
- 1 curved surface;
- **no** vertices;
- 2 curved edges.

3D shapes

Lets remind ourselves of the properties of different 3D shapes.

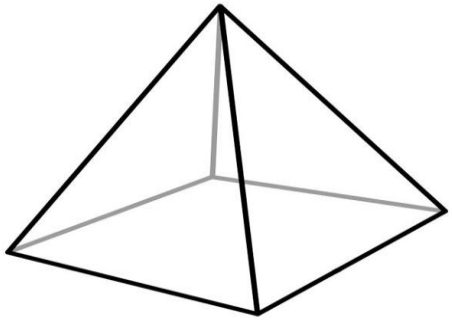
Cone

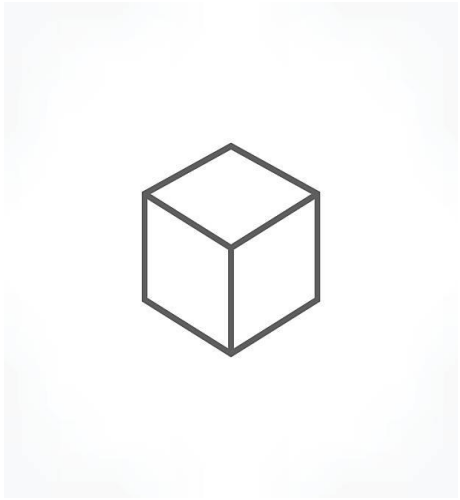


Cones have:

- 1 flat face which is a circle;
- 1 apex;
- 1 edge;
- 1 curved surface.

What is the same?
What if different?

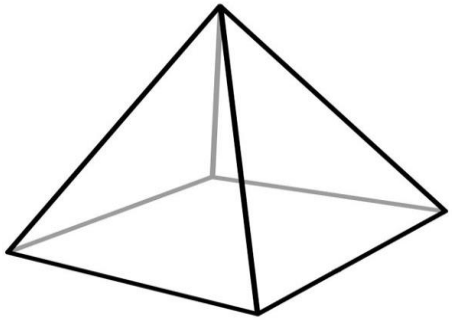


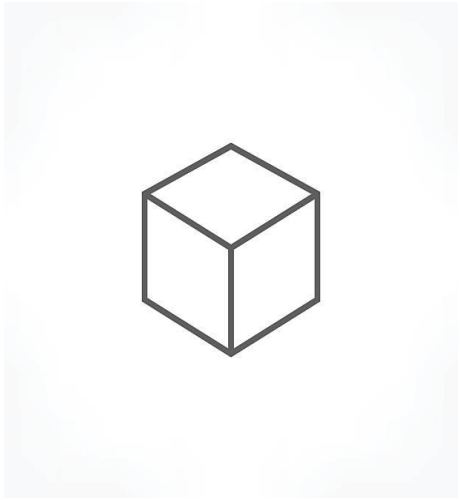


What is the same about the square based pyramid and cube?

What is different about the square based pyramid and cube?

What is the same?
What if different?





Same

The square based pyramid and cube both have a square shaped face.

Different

The square based pyramid has 5 vertices and the cube has 8 vertices.

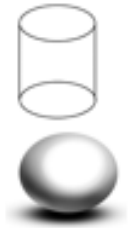
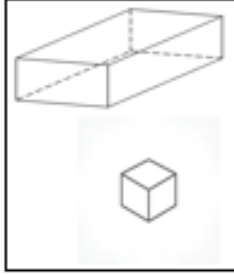
Your task…

- Look at the shapes on the sheet.
- What is the same about them?
- What is different about them?
- Use the word bank to help you.
- (On the bottom of the sheet)

Date:

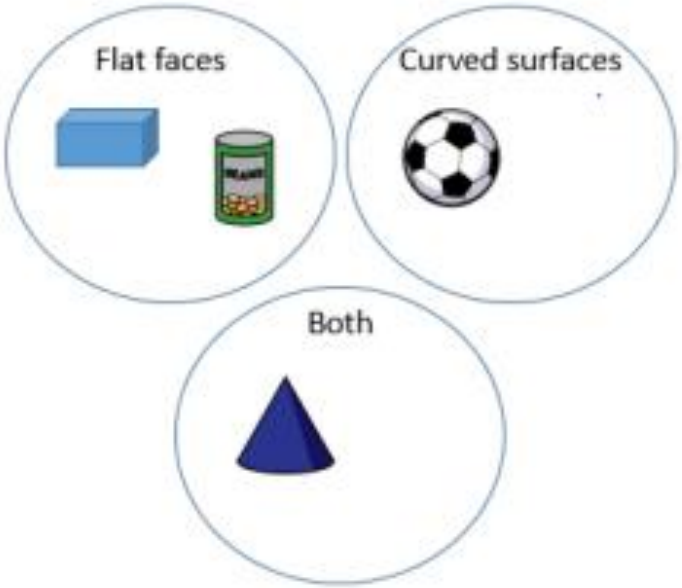
- I can name 3D shapes and talk about what is the same and different about them.
- I can talk about their properties and use the words: edge and face correctly.

What is the same and what is different about these pairs of shapes?

	Same?	Different?
		
		
		

To finish things off…

Annie has sorted these 3-D shapes.
Can you spot her mistake?
Can you add another shape to each set?



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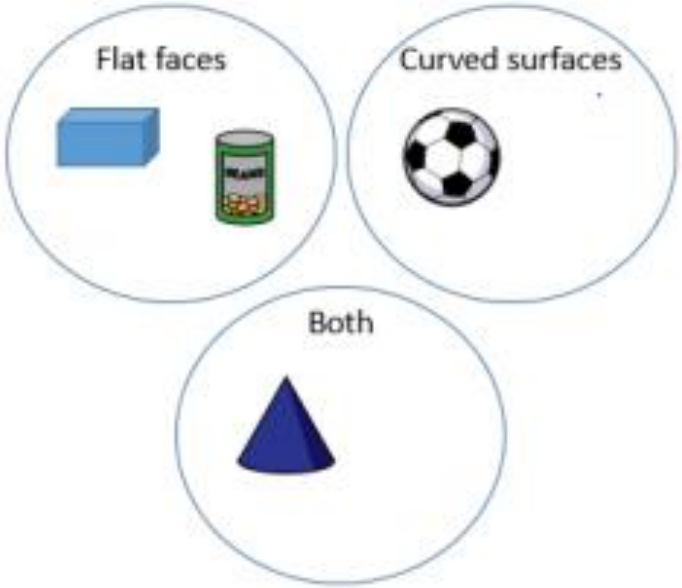

The can should be in the ‘both’ set because it has flat faces and a curved surface