

Year 2 Maths 29/06/2020



Lesson Aims

- I can name 3D shapes
- I can talk about their properties and use the words: edge, face and vertices correctly.



Fluency

There are 30 sweets in a packet. I eat 14 of them. How many are left?



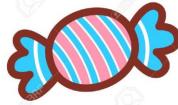




Fluency

There are 30 sweets in a packet. I eat 14 of them. How many are left?

30-14=16

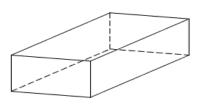


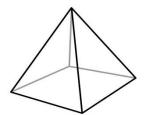


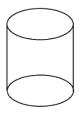


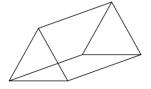
What are these 3D shapes called?

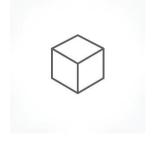










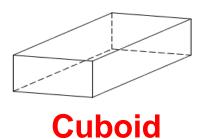




What are these 3D shapes called?

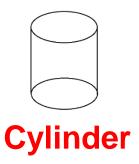


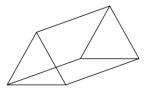
Sphere



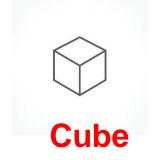


Square based pyramid





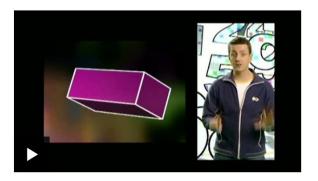
Triangular prism





Have a listen to the 3D shape song:

https://www.bbc.co.uk/bitesize/clips/zps34wx





Lets have a look at properties of 3D shapes:

Vertices Edges Faces

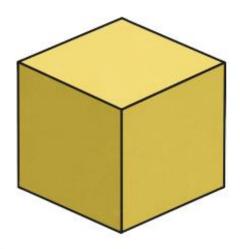
Watch this video to help:

https://www.youtube.com/watch?v=3nLpD6bE4fE



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

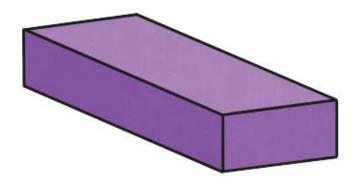
Cube



Cubes have:

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

Cuboid



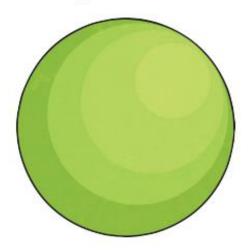
Cuboids have:

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



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

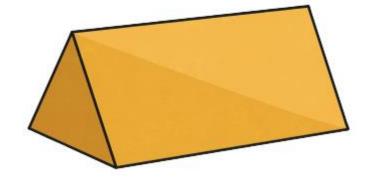
Sphere



Spheres:

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

Triangular Prism



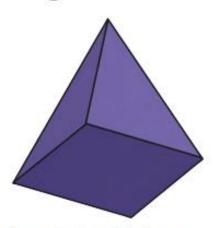
Triangular prisms have:

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



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

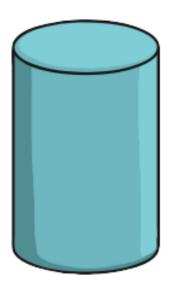
Square-Based Pyramid



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.



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.

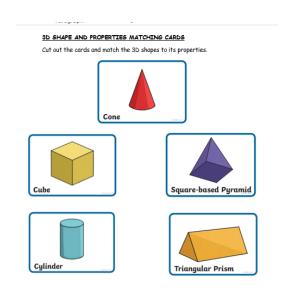


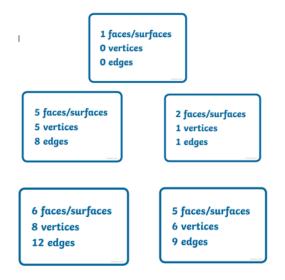
Your task...

3D Shape matching game

Cut out all of the cards.

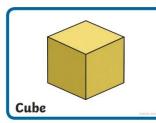
Match the picture of the 3D shape to the card with the correct number of faces/edges and vertices.







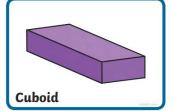
The answers...



6 faces/surfaces

8 vertices

12 edges



6 faces/surfaces

8 vertices

12 edges



5 faces/surfaces

5 vertices

8 edges



1 faces/surfaces

0 vertices

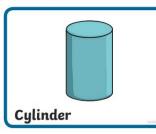
0 edges



5 faces/surfaces

6 vertices

9 edges



3 faces/surfaces

0 vertices

2 edges



2 faces/surfaces

1 vertices

1 edges



To finish things off...

Teddy says my 3-D shape has 6 faces.

Mo says he must have a cube.

Is Mo correct?

Explain your answer.



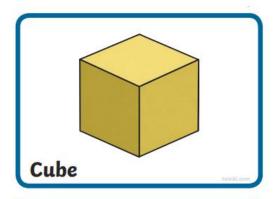
To finish things off...

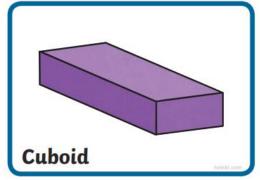
Teddy says my 3-D shape has 6 faces.

Mo says he must have a cube.

Is Mo correct?

Explain your answer.





No because Teddy could have a cube or a cuboid