Let's have a go at these equations!

Engage

17 + 32

56 - 43

$\frac{3}{4}$ of 28

10 x 9

30 ÷ 6

Key Learning: identify 2D shapes on the faces of 3D shapes

Introduce
(5 mins)

Success criteria:

- I can name different 3D shapes.
- I can identify a 3D shape from its properties.
- I can identify the 2D shapes (square, triangle, rectangle, circle) on the faces of a 3D shape.

Star Words

faces triangular prism cuboid
pyramid cylinder cone cube

Let's play Top Trumps!

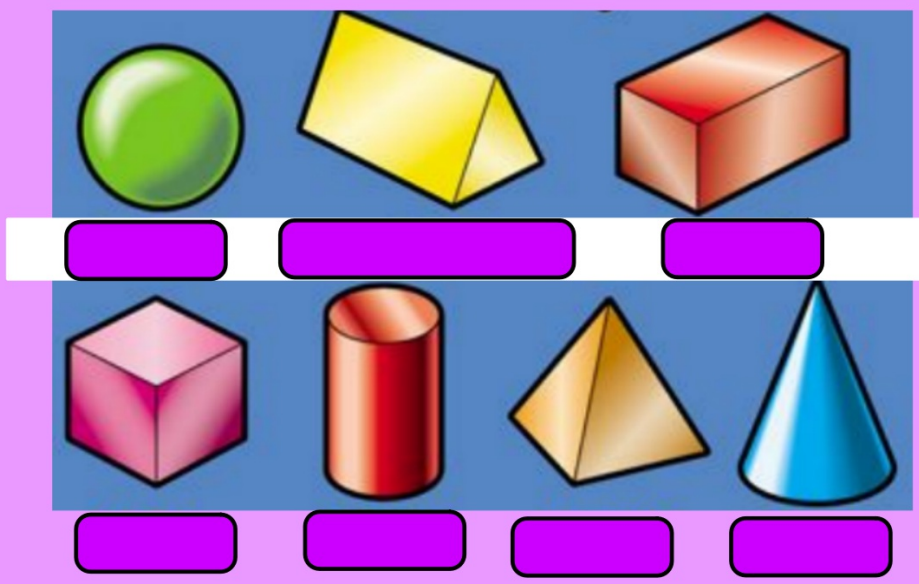
Introduce

(5 mins)

Using the 3D Top Trumps cards we made last lesson, we are going to play the game to remind ourselves of the features of different 3D shapes!

Let's Recap

What are these 3D Shapes called?



Introduce

(5 mins)

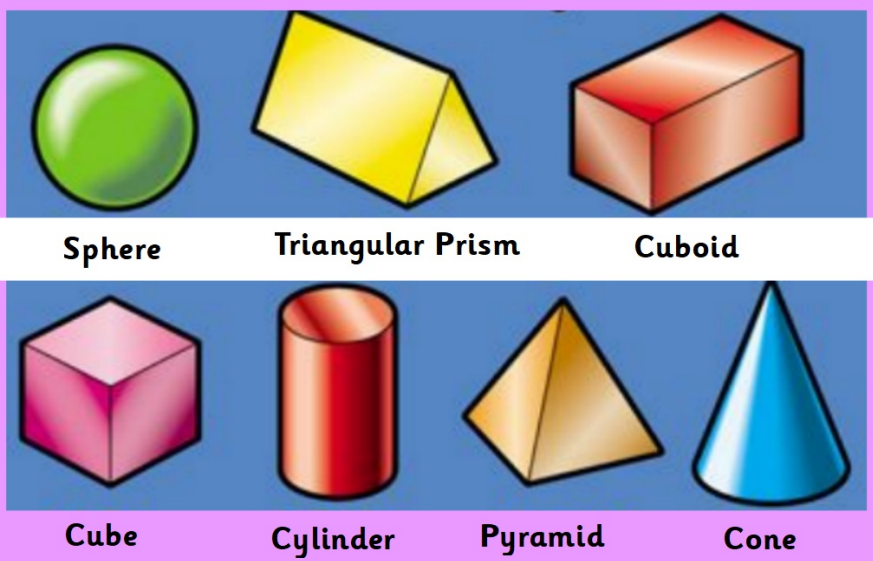
use physica
shapes

Can you spot any 2D shapes in these 3D shapes?

Introduce

(5 mins)

use physica
shapes



Tinker Time!

Practise and consider

Sit in a circle around the edge of the carpet.

Pass the feely bag around the circle.

When the music stops, that child will reach in to the bag and describe the 3D shape.

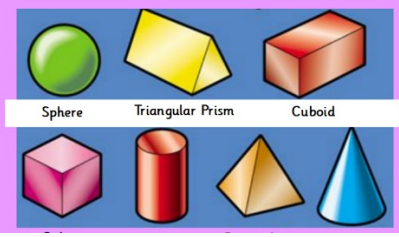
What 2D Shapes can you see within the 3D Shape?

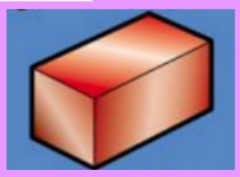
Introduce

(5 mins)

I am thinking of a 3D shape. It has 12 edges, 8 vertices and 6 faces. It has 2 squares and 4 rectangles in it.

What could my shape be?





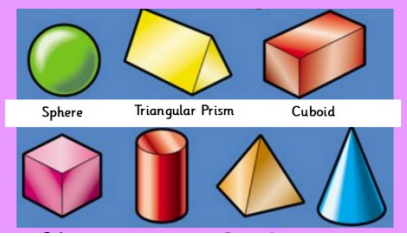
A cuboid!

Introduce

(5 mins)

I am thinking of a 3D shape. It has 8 edges, 5 vertices and 5 faces. It has 4 triangles and 1 square in it.

What could my shape be?

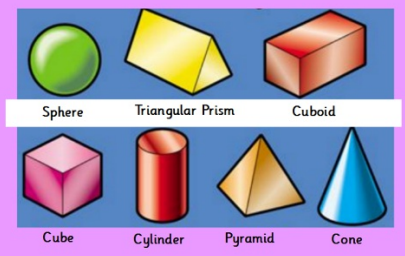


pyramid

What 3D Shapes could I make with...

Introduce

(5 mins)



A triangle?

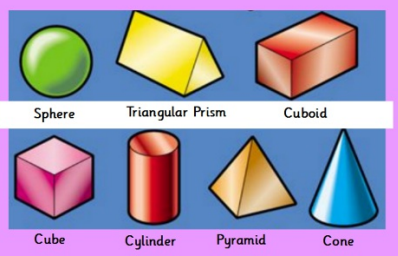
Triangular prism

Pyramid

What 3D Shapes could I make with...

Introduce

(5 mins)



A rectangle?

Triangular prism

Cuboid

Mrs Granger thinks you can make these shapes from a circle:

Which one of these shapes can you **not** make with a circle?

A sphere! Because a 2D shape has to be flat.

Independent

Use your knowledge to complete the table

Properties	Name of 3d shape	Picture
2 triangles faces 3 rectangles faces		
2 squares faces 4 rectangles faces		
6 square faces		
2 circle faces		
4 triangles faces 1 square face		
1 circle face		
0 2d faces		

Deepening

What do all of these 3d shapes have in common?

Mr Ogden has worked out that a cube has 6 rectangles.
Is he correct? Explain your answer.

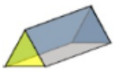
True / False

4.1.2022 Deepening

Key Learning: Identify 2d shapes in 3d shapes.

I'm thinking of a 3d shape. It has a square face. What 3d shape could I be thinking of? Give all the possibilities.

What is the same about these 2 shapes?



What is different about them?

Reflection

Time for you to be the teacher.

1. Think of a 3d shape
2. Descibe it using 2d shapes to your partner
3. Can the correctly guess it.