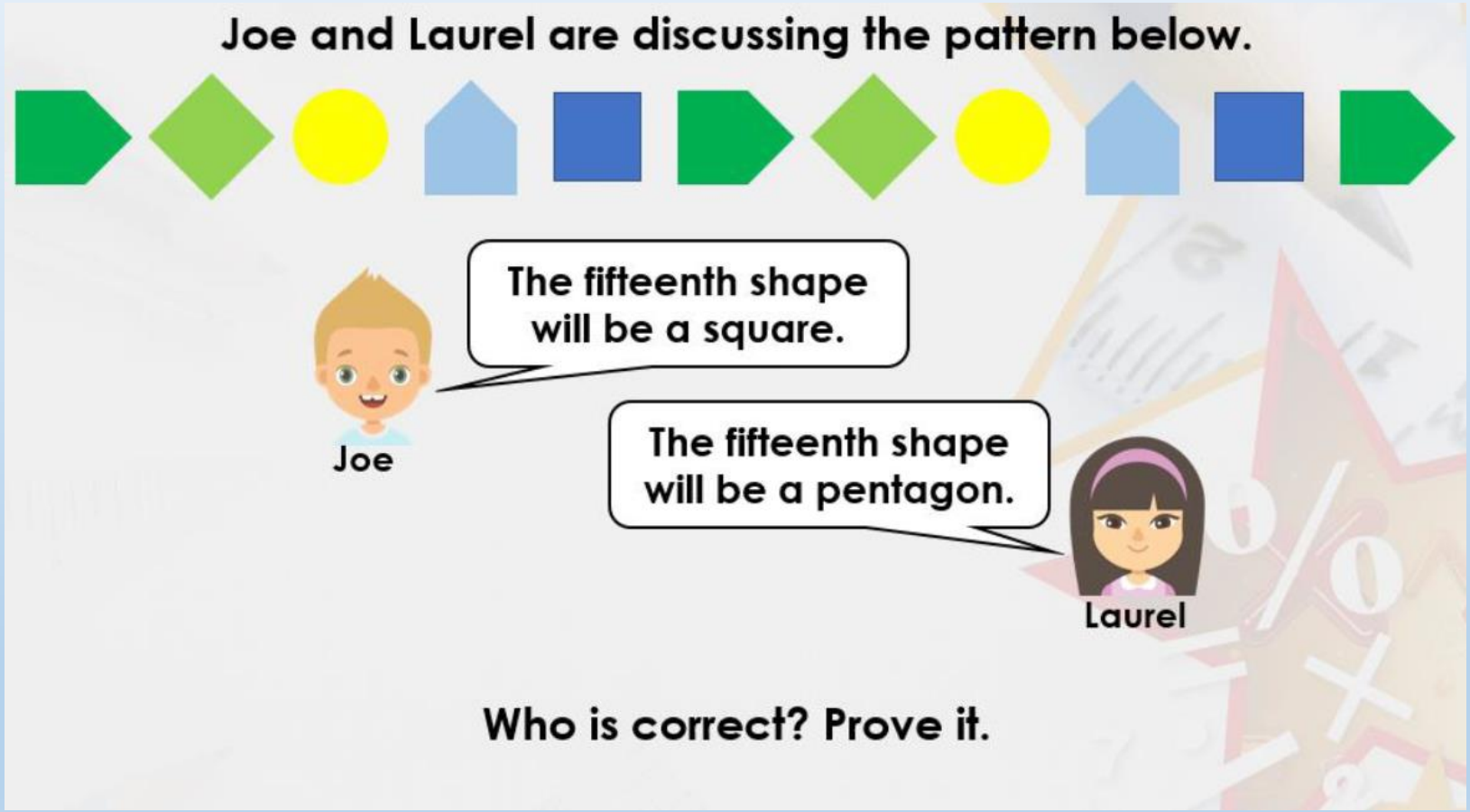
Maths – Monday 1st February

Retrieval practice:



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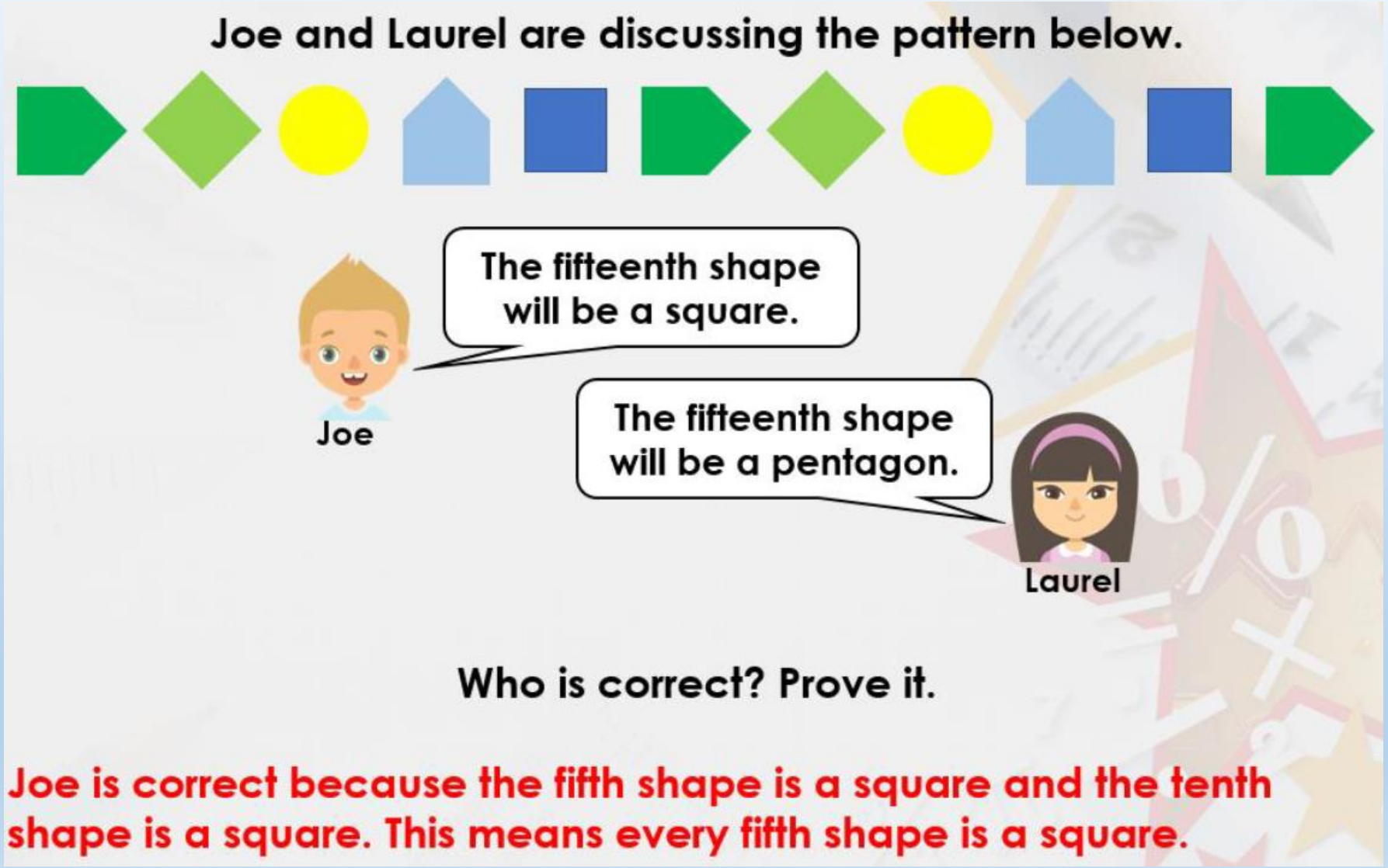


WALT: Count faces in 3D shapes

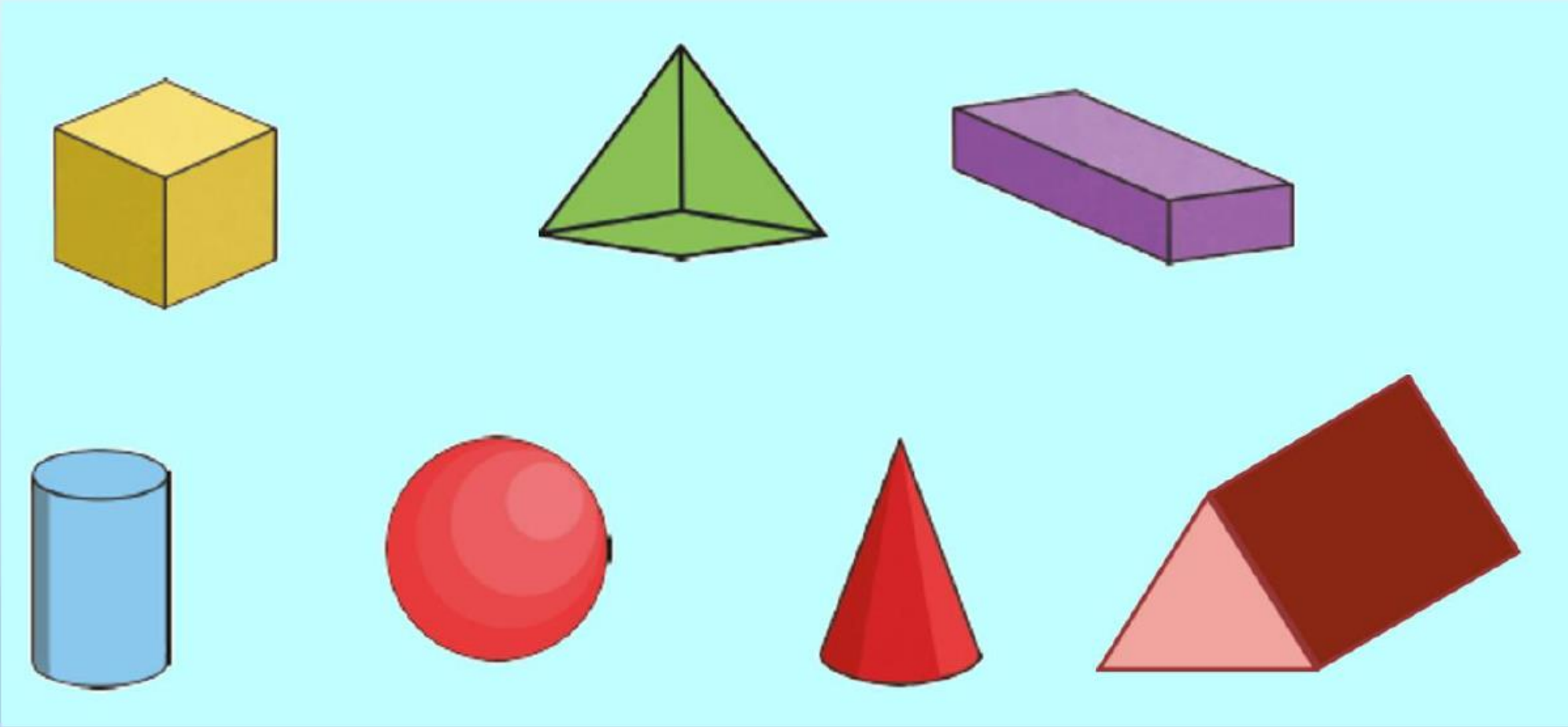
2D shape properties:

- Sides
- Vertices

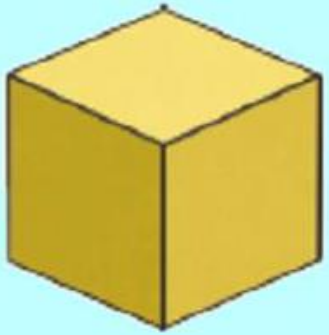
3D shape properties:

- Faces
- Edges
- Vertices

Can you match the names to the shapes?

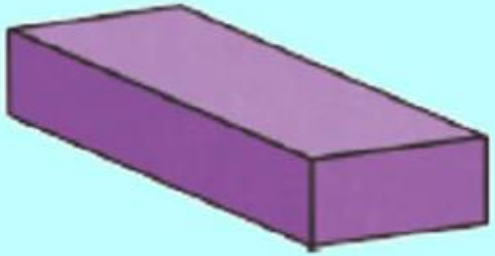


cuboid, sphere, cone, cube, cylinder, square based pyramid, triangular prism

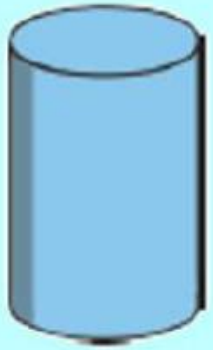


cube

square based pyramid



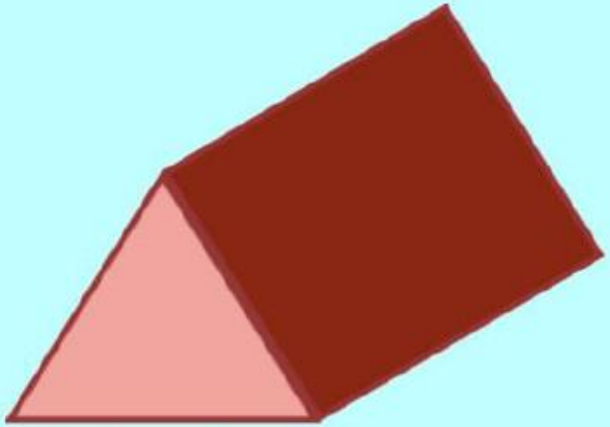
cuboid



cylinder

sphere

cone

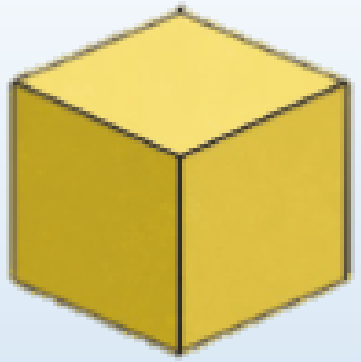


triangular prism

What is a face?

- A face is a property of a 3D shape.
- 3D shapes have flat and curved surfaces.
- The flat surfaces are called ‘faces’.

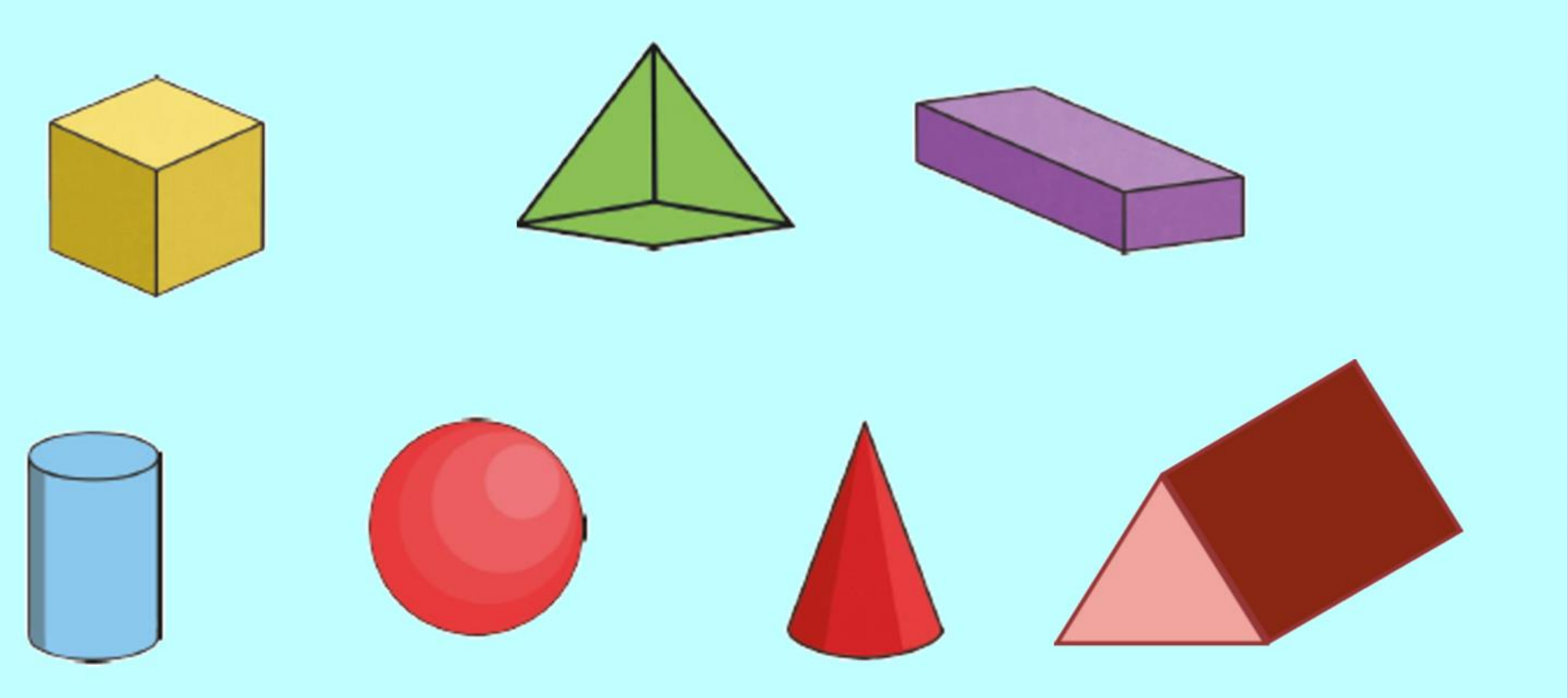
- Some shapes only have flat surfaces (faces)



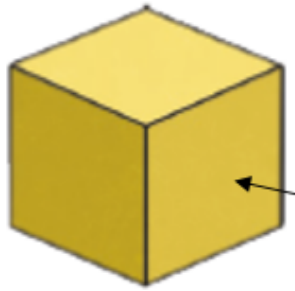
- Some shapes only have a curved surface

- Some shapes have flat faces and curved surfaces

Can you spot the (flat) faces and curved surfaces in these 3D shapes?



Can you recognise the 2D shapes in the faces of 3D shapes?



The shape of this face is a square

The shape of this face is a circle

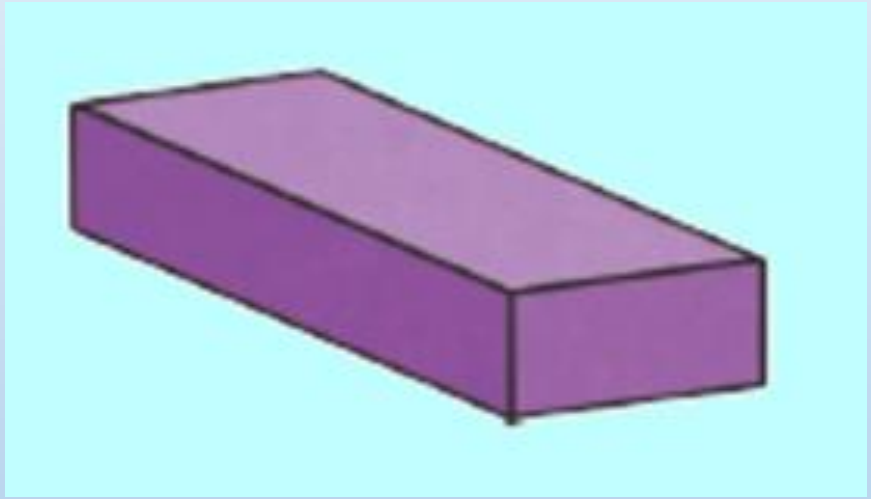
Look at these 3-D shapes:

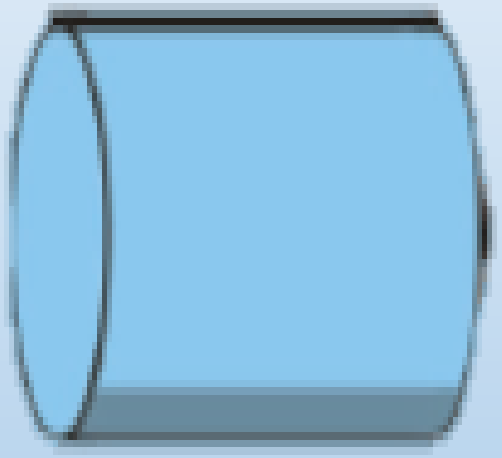
Which 2-D shapes can you see on the surface of each one?

Look at these 3-D shapes:

Which 2-D shapes can you see on the surface of each one?

Can we count the faces?





TESCO
ITALIAN
CHOPPED
TOMATOES
VINE-RIPENED
GENERAL KNOWLEDGE QUIZ
100 TESTING TRIVIA QUESTIONS
FOR THE GENERAL KNOWLEDGE EXPERT

One to discuss

Teddy says my 3-D shape has 6 faces.

Mo says he must have a cube.

Is Mo correct?

Explain your answer.

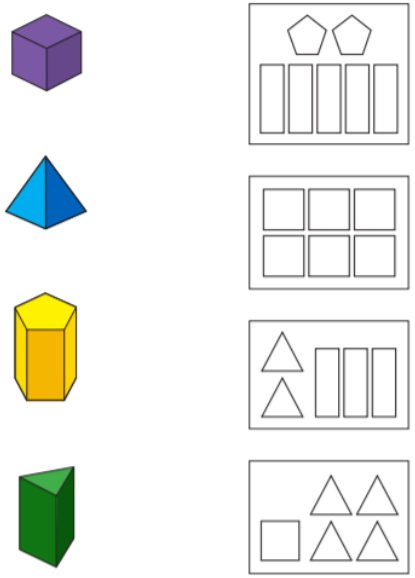
One to discuss

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.

Your task today

Count faces on 3D shapes

1 Match the shapes to the faces.



2 Complete the table.

Shape	Name	Number of faces

3

My shape has one curved surface.

What shape is Jack describing? _____

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4 Match the description to the shape.

1 circular face and 1 curved surface	
2 circular faces and 1 curved surface	
4 triangular faces	

5

A cube is the only 3D shape with 6 faces.

Alex has made a mistake.

Name another 3D shape that has 6 faces.

_____

6 Dexter has 5 of the same 3D shapes.

In total, my shapes have 10 circular faces.

What shapes has Dexter got?

Dexter has got 5 _____

7 Dora wants to put a sticker on each face of some cubes.

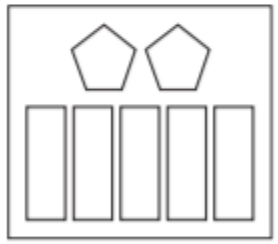
She has 60 stickers.

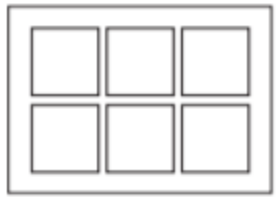
How many cubes can she cover in stickers?

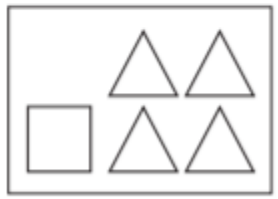
Dora can cover ☐ cubes in stickers.

Count faces on 3D shapes

1 Match the shapes to the faces.







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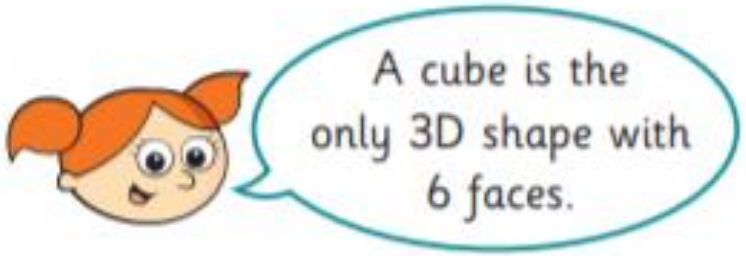

Alex has made a mistake.

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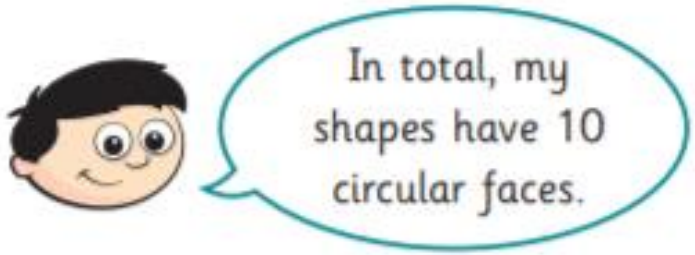

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