

Maths – Tuesday 2nd February

Retrieval practice:



Can you name a shape that only has one curved surface? Can you name a shape with 6 square faces? Which shapes have a triangular face?

Retrieval practice:



Can you name a shape that only has one curved surface? Sphere

Can you name a shape with 6 square faces?

Cube

Which shapes have a triangular face?

Square based pyramid, triangular prism



WALT: Count edges on 3D shapes

2D shape properties:

- Sides
- Vertices

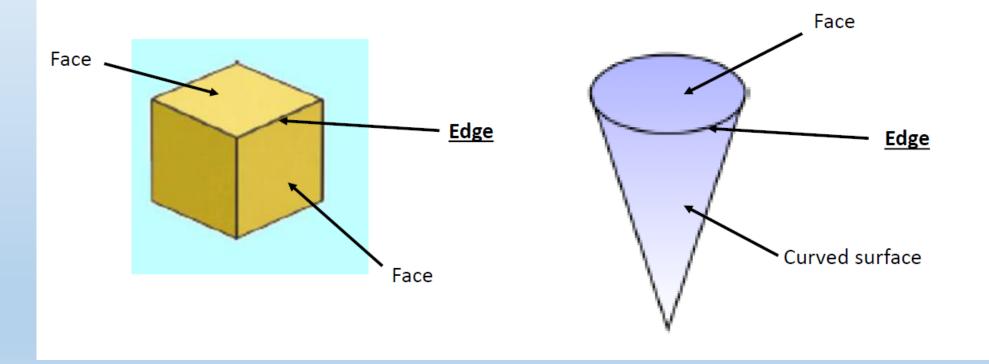
3D shape properties:

- Faces
- Edges
- Vertices



What is an edge?

• Edges are where 2 faces or curved surfaces meet.

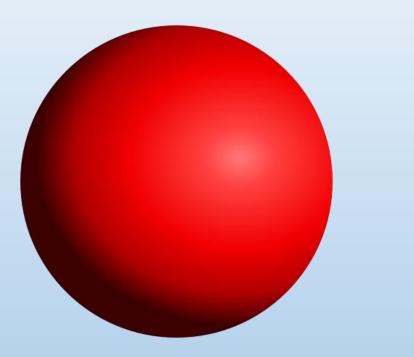


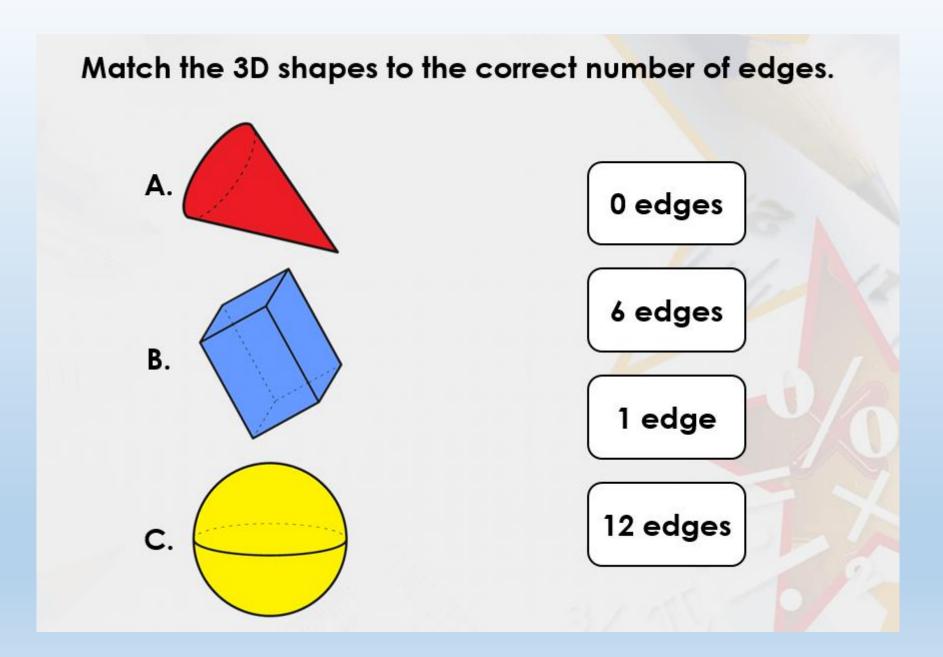


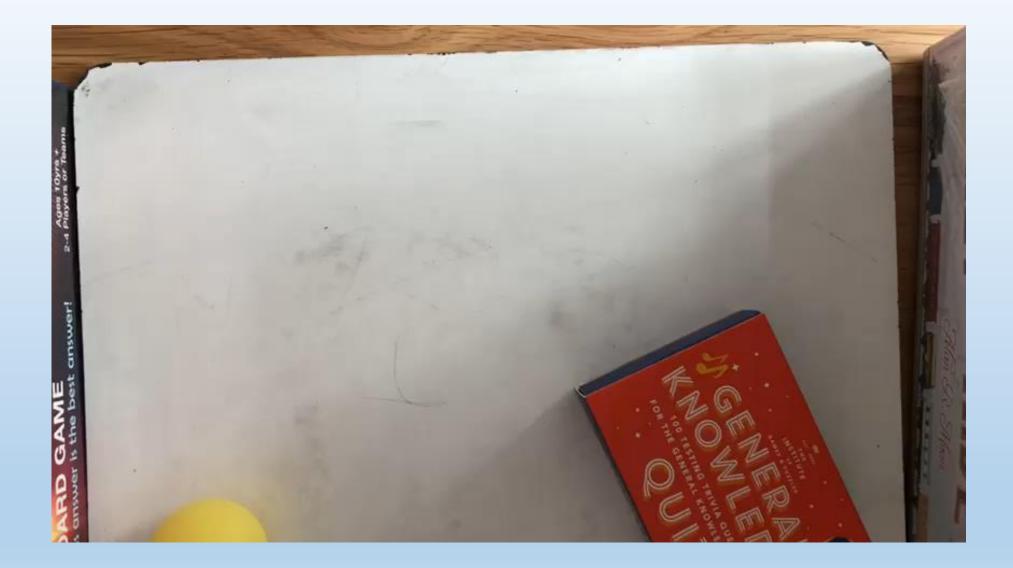
Can you think of shape with no edges?

Can you think of shape with no edges?

• Sphere

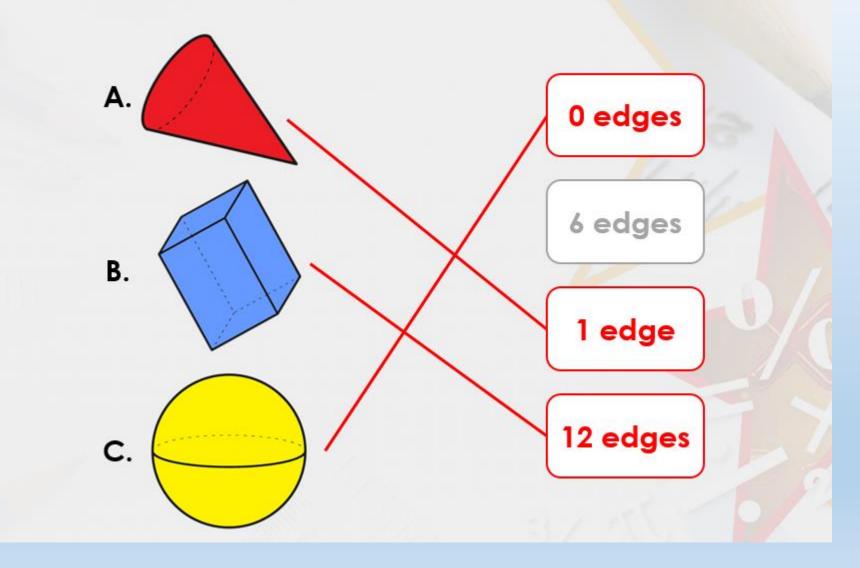


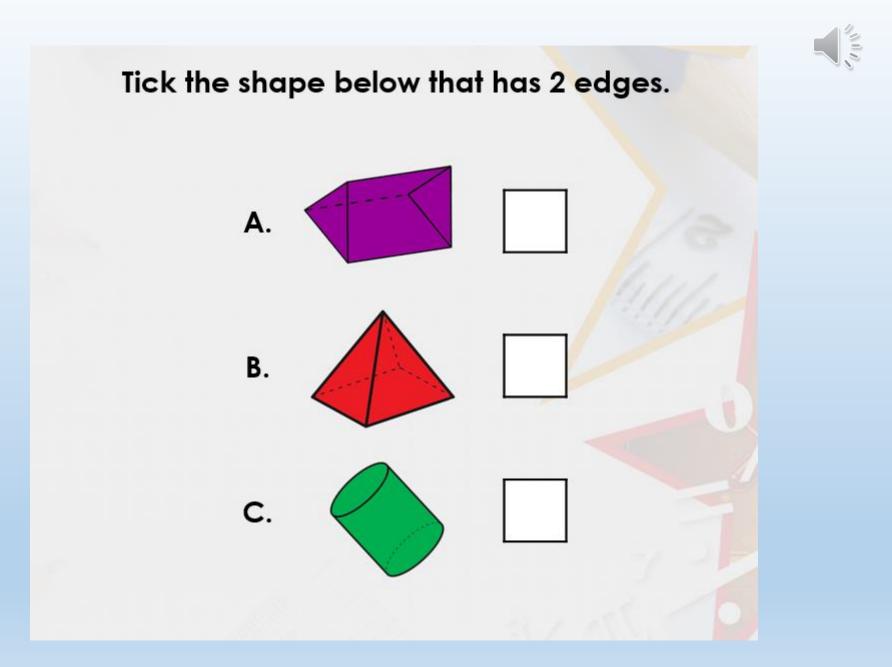


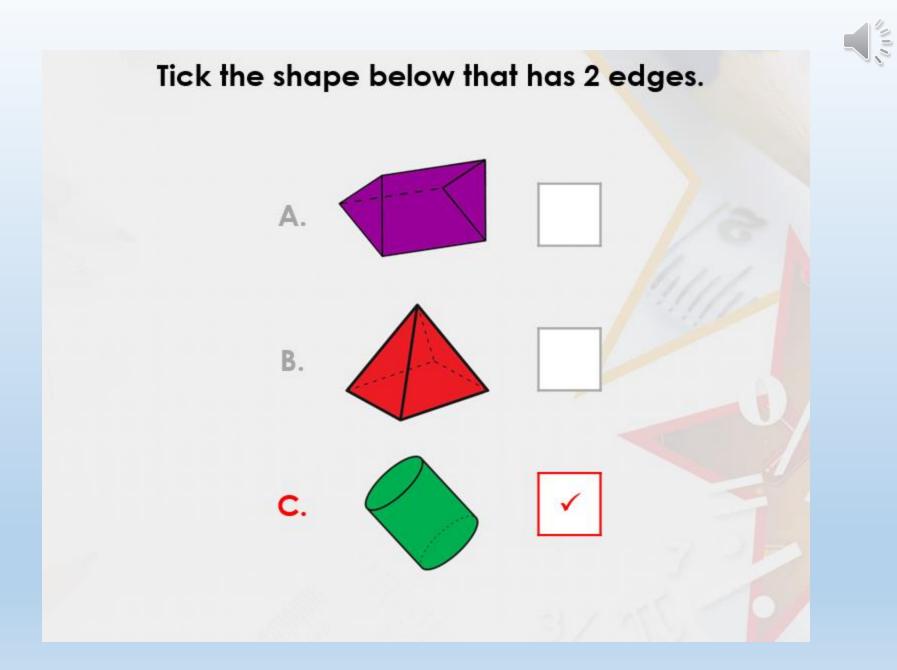


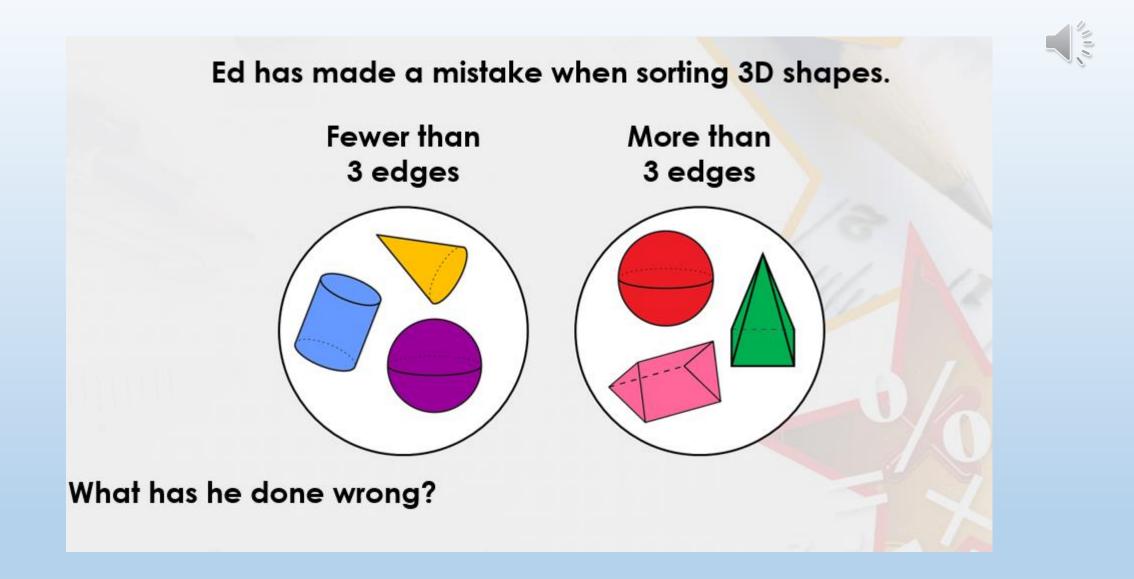


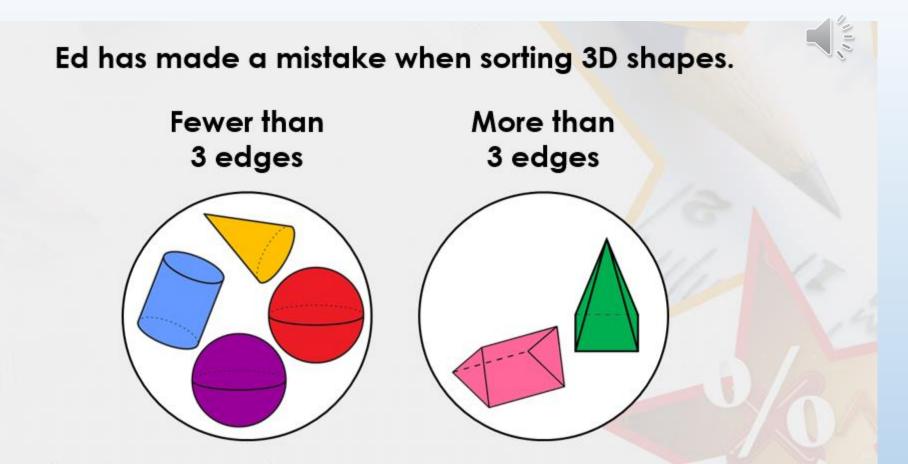
Match the 3D shapes to the correct number of edges.











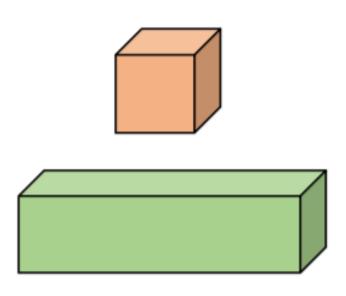
What has he done wrong?

Ed has but the sphere in the wrong group because a sphere has 0 edges which is fewer than 3. Both spheres should be in the same group.



One to discuss

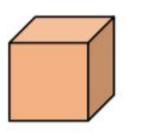
Compare these 3-D shapes.



What is the same and what is different?

One to discuss

Compare these 3-D shapes.





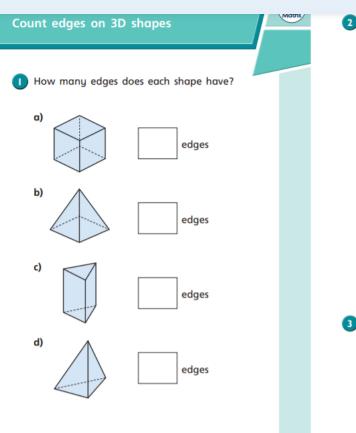
What is the same and what is different?

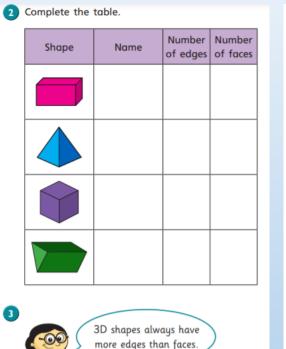
Same – both have square faces, 6 faces, 12 edges, don't roll, can stack, no curved edges.

Different – name, colour, size, one only has square faces the other has squares and rectangles....



Your task today



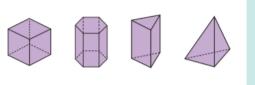


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Do you agree? _

Why?

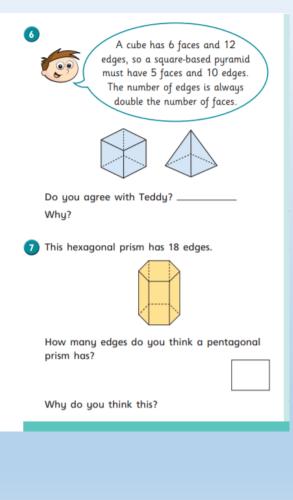
Use the clues to label the shape with the correct letter.



- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

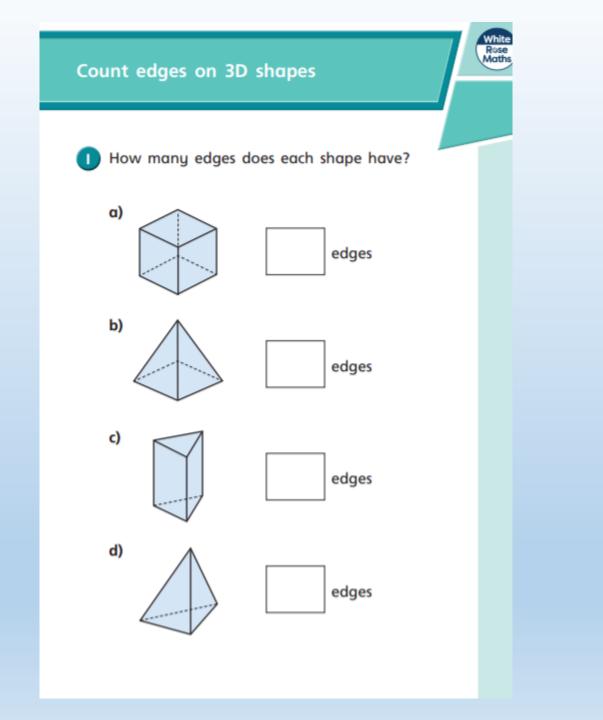
5 Write the name of two 3D shapes that have the same number of edges.

_____ and _____



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Shape	Name	Number of edges	Number of faces

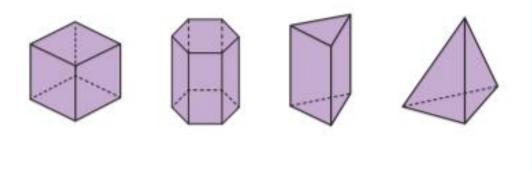




3	
	3D shapes always have
	more edges than faces.
	Do you agree?
	Why?

3

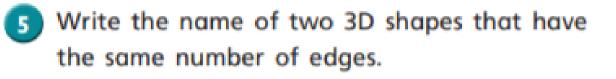
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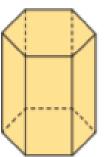
_ and _____

6 A cube has 6 faces and 12 edges, so a square-based pyramid must have 5 faces and 10 edges. The number of edges is always double the number of faces. Do you agree with Teddy? Why?

10



7 This hexagonal prism has 18 edges.



How many edges do you think a pentagonal prism has?

Why do you think this?