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.



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


Tick the shape below that has 2 edges.


Tick the shape below that has $\mathbf{2}$ edges.


Ed has made a mistake when sorting 3D shapes.

Fewer than
3 edges


More than
3 edges


What has he done wrong?

Ed has made a mistake when sorting 3D shapes.

> Fewer than
> 3 edges


More than
3 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


a)

b)

c)

d)

edges
(2) Complete the table.

| Shape | Name | Number <br> of edges | Number <br> of faces |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

3


Do you agree? $\qquad$ Why?
4. 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.
$\qquad$


Do you agree with Teddy? $\qquad$
Why?
(7) This hexagonal prism has 18 edges


How many edges do you think a pentagonal prism has?

Why do you think this?

a)

b)

c)

d)

2) Complete the table.


3


Do you agree?
Why?
4. 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


Do you agree with Teddy?
Why?
(7) This hexagonal prism has 18 edges.


How many edges do you think a pentagonal prism has?


Why do you think this?

