Our Maths Learning Journey

Unit Fractions 1/2 and 1/4, 1/3 Non Unit fractions 2/4, 3/4

2/4, 3/4

Key vocabulary:

Half

Quarter

Third

Equivalent

Equal part

Numerator

Denominator

Fraction

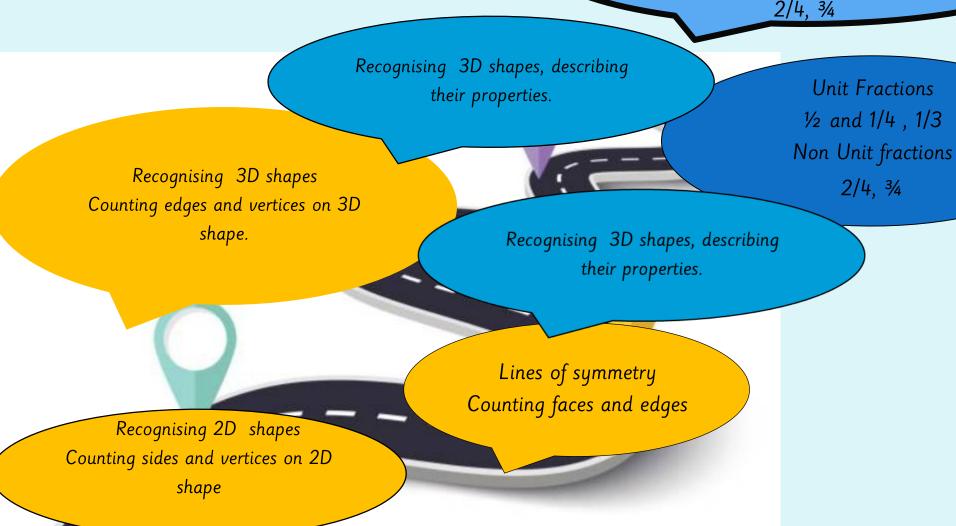
Unit fraction

Non-unit fraction

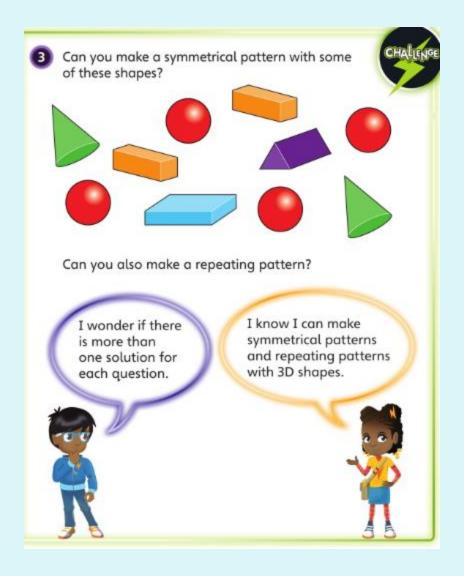
Edges

Vertices

Faces



Challenge of the week







LQ: Can I count vertices on 3D shapes?



Steps to Success:

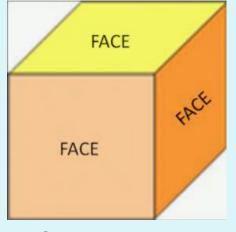
I know what vertices are.

I can count the vertices of 3D shapes.

I can describe properties of 3D shape.

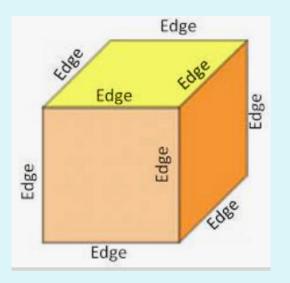
3D shapes





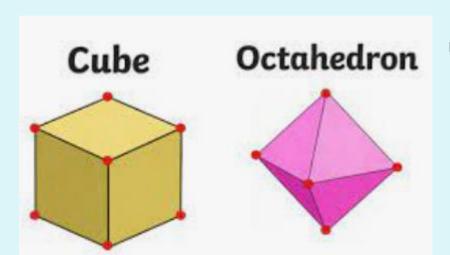
flat

edges



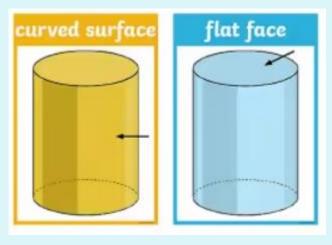
2D shape

faces



vertices

Vertex (1)



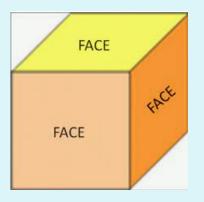
curved surface

Let's recap

LQ: Can I count vertices on 3D shapes?

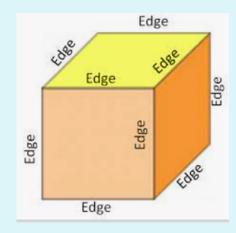


TP- What are faces on 3D shapes? How would you describe them? 'Faces on 3D shapes are...'



What do you remember about edges on 3D shapes? 'Edges on 3D shapes are...'

What do you remember about vertices on 3D shapes? 'Vertices on 3D shapes are the...'

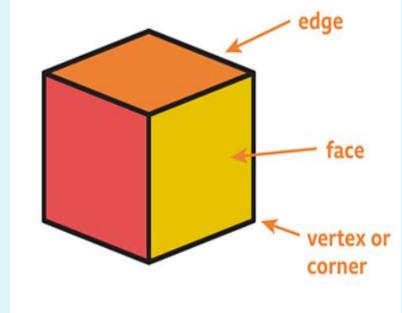


<u>Edges</u>

Edges. An edge is where two faces meet. For example a cube has 12 edges, a cylinder has two and a sphere has none.

Vertex-Vertices

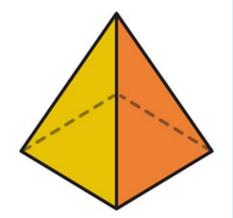
A vertex is a corner where edges meet. The plural is vertices. For example a cube has eight vertices, a cone has one vertex and a sphere has none.



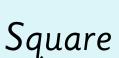
Self assessment

Do you understand what faces, edges and vertices are?

Describe the properties of a square based pyramid on your table.



Triangular



TP -How many edges does this shape have?

How many vertices does this shape have?

How many faces does this shape have?

How do you know?

What 2D shapes are the faces?

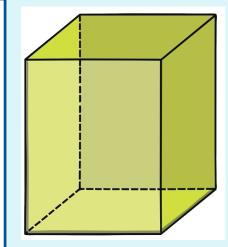
Describe the properties of cuboid.

TP - How many edges does this shape have?

How many faces does this shape have?

How many vertices does this shape have?

How do you know? What 2D shapes are the faces?



Square Rectangle

Self assessment

Do you understand how to count faces, vertices and edges 3D shapes?

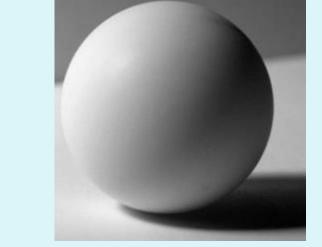
Describe the properties of sphere.

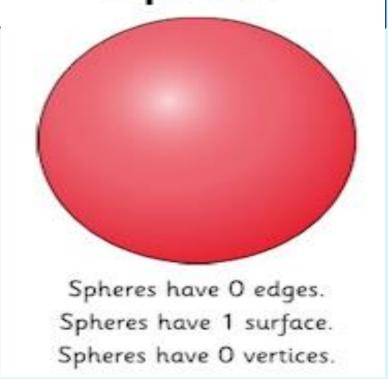
TP - How many edges does this shape have?

How many surfaces does this shape have?

How many vertices does this shape have?

Is the surface flat or curved?



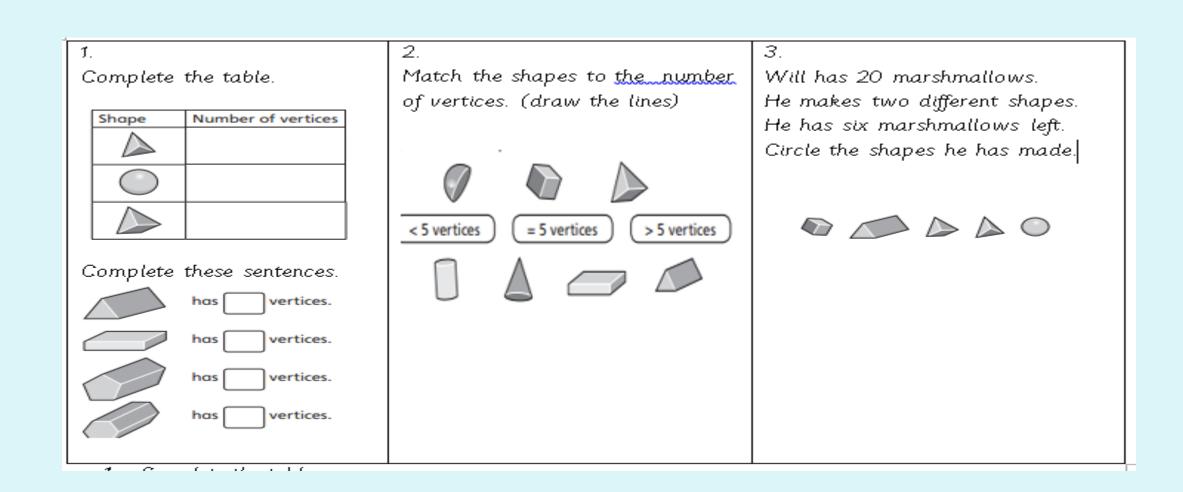




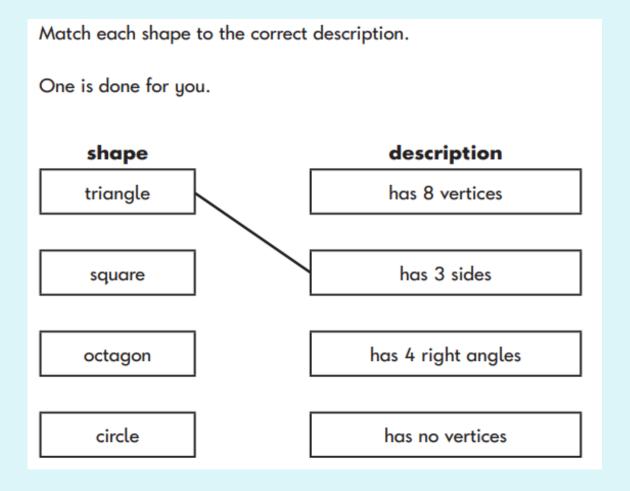
Complete the tasks in your book.

Self assessment

Do you understand what to do?



Mental Maths





LQ: Can I describe the properties of 3D shapes?



Steps to Success:

I can name 3D shapes.

I can describe the properties of 3D shapes.

I can use the language faces, vertices and edges to describe the 3D shapes.



vertex

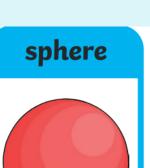
vertices

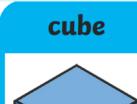
flat

curved

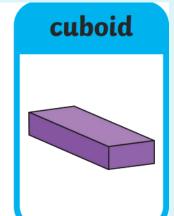
edges

faces







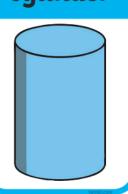


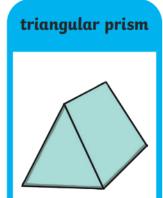
3D shapes

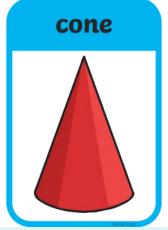
2D shapes

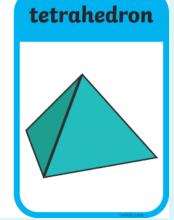
surface





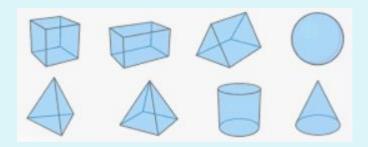






LQ: Can I describe the properties of 3D shapes?

Today you are going to describe the properties of 3D shapes.



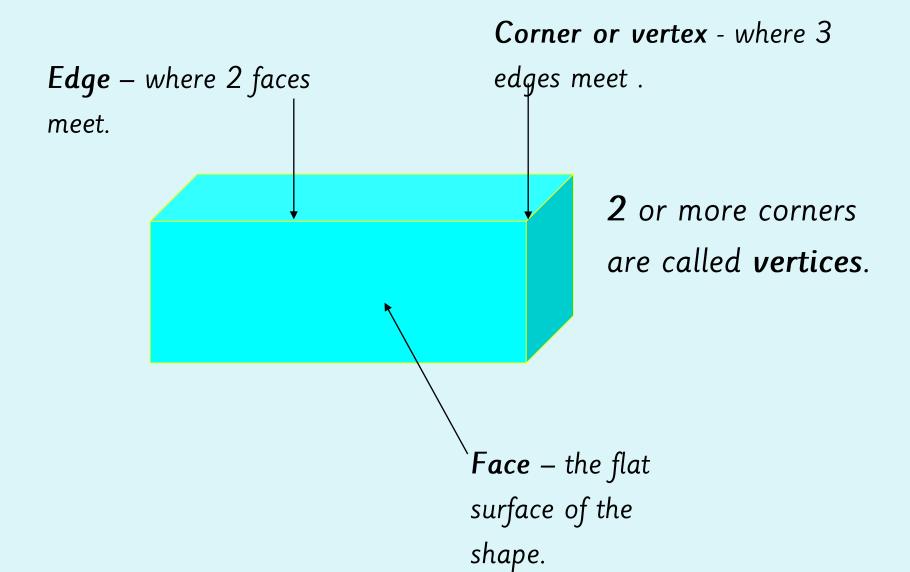
Let's recap

https://www.youtube.com/watch?v=3-QwWFkz5hw

- > 3D shapes are solid shapes. They are 3 dimensions width, height and depth.
- Some 3D shapes have flat faces and some have curved surface.
- When two faces meets, it creates an edge.
- When two edges meet, it creates a vertex.
- Vertex is one. Vertices are more than one.

LQ: Can I describe the properties of 3D shapes?

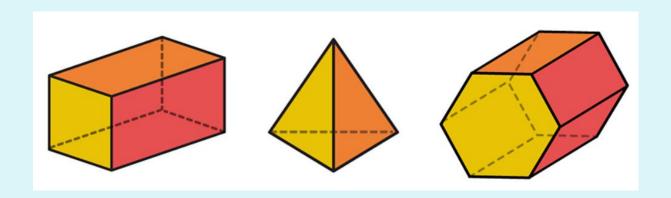
3D shapes are Solid Shapes



LQ: Can I describe the properties of 3D shapes?

Let's recap again about properties of 3D shapes.

https://www.youtube.com/watch?v=3-QwWFkz5hw



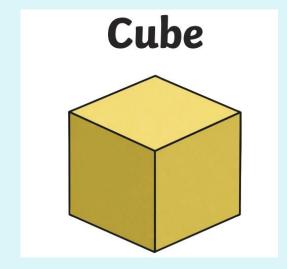
Self assessment

Do you understand what properties mean?

LQ: Can I describe the properties of 3D shapes?

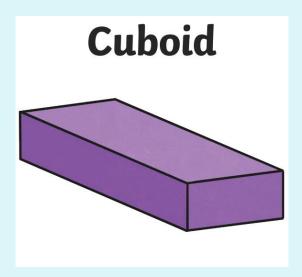
What words are used to describe the properties of 3D shapes?

Let's count the faces, edges and vertices to compare the properties of a cube and cuboid.



Cubes have:

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



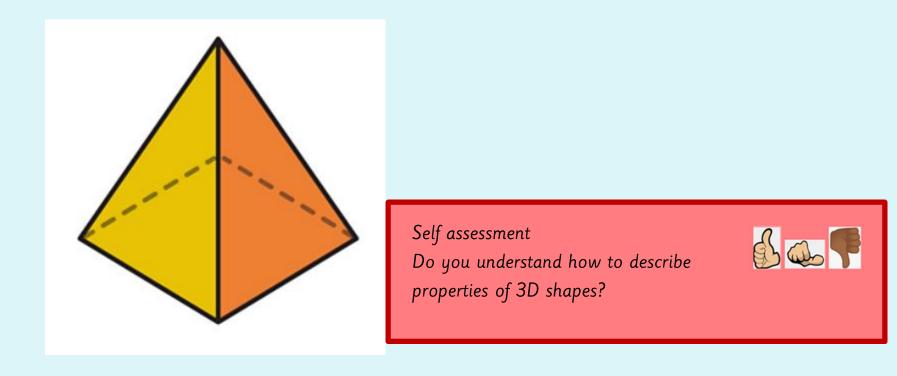
Cuboids have:

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

TP – How are they the same/different?

LQ: Can I describe the properties of 3D shapes?

Describe the properties of a square base pyramid on your table.

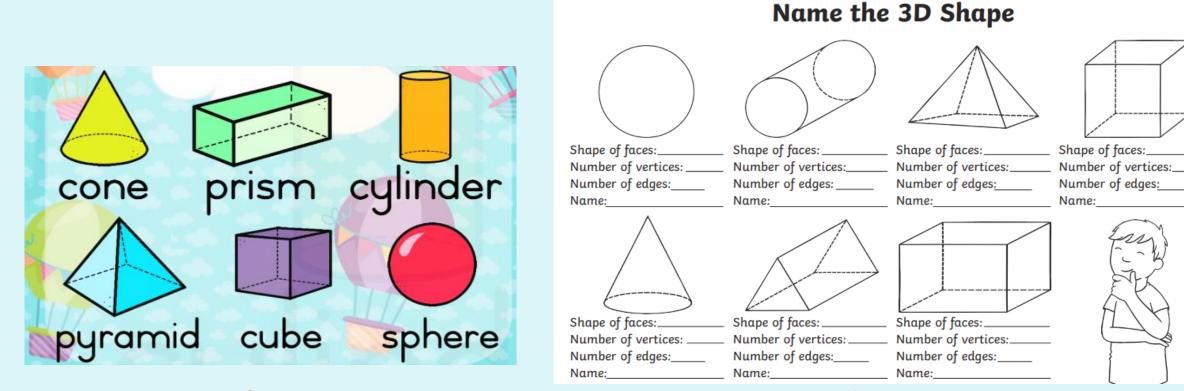


TP – How many faces/vertices/edges does this shape have? How do you know?

LQ: Can I describe the properties of 3D shapes?

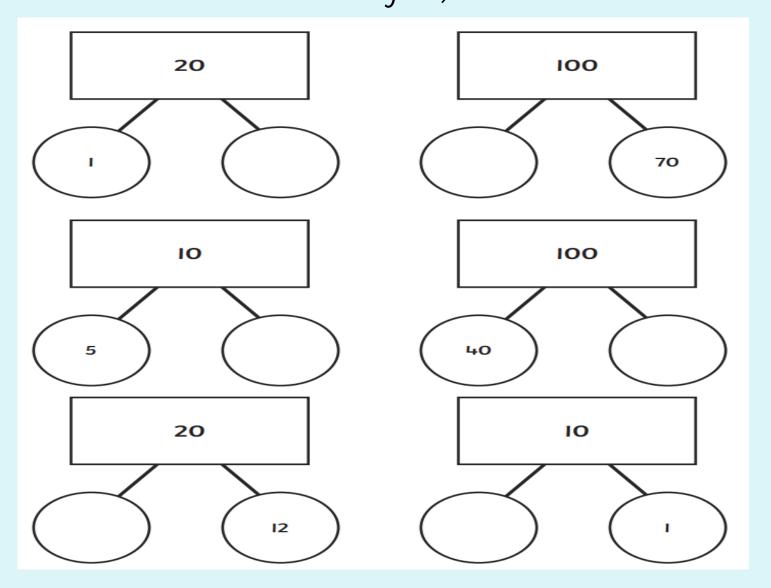
Practical

Work with your partner to explore the properties of the shapes on your table.



Remember NOT to turn the shape as you count the faces, edges and vertices.

Mental Maths
Number Bonds of 10, 20 and 100





LQ: Can I describe the properties of 3D shapes?



Steps to Success:

I can name 3D shapes.

I can describe the properties of 3D shapes.

I can use the language faces, vertices and edges to describe the 3D shapes.



vertex

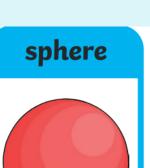
vertices

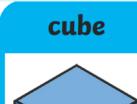
flat

curved

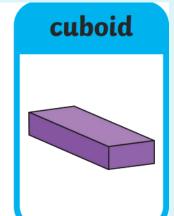
edges

faces







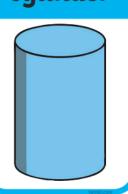


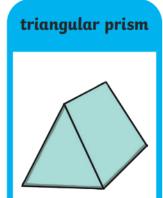
3D shapes

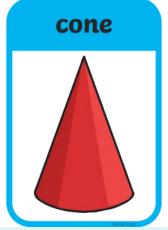
2D shapes

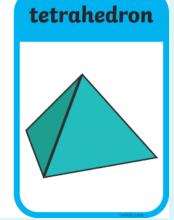
surface





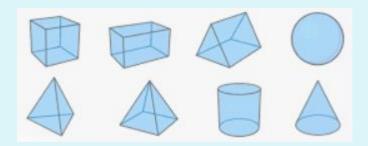






LQ: Can I describe the properties of 3D shapes?

Today you are going to describe the properties of 3D shapes.

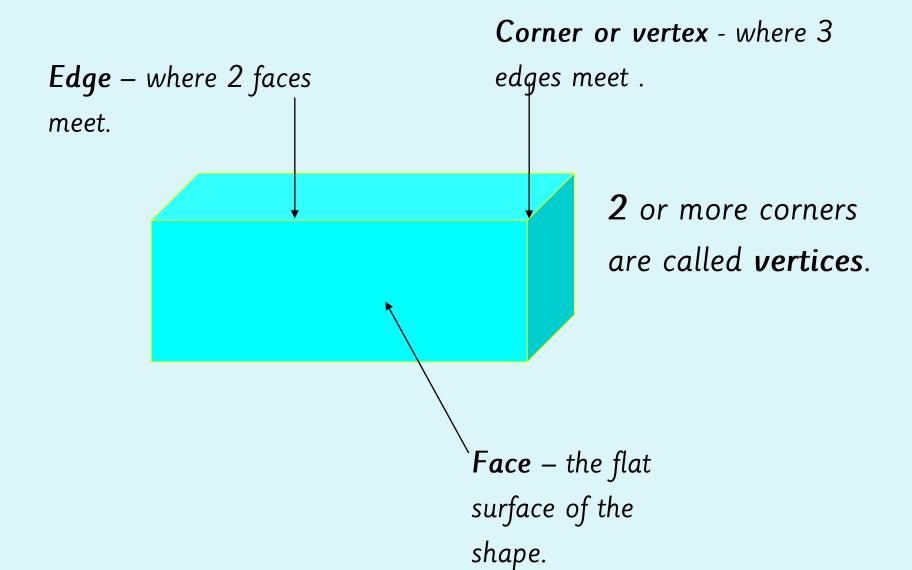


Let's recap

https://www.youtube.com/watch?v=3-QwWFkz5hw

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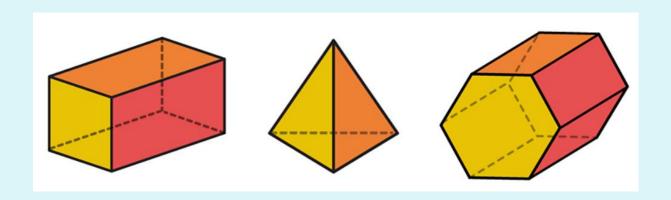
3D shapes are Solid Shapes



LQ: Can I describe the properties of 3D shapes?

Let's recap again about properties of 3D shapes.

https://www.youtube.com/watch?v=3-QwWFkz5hw



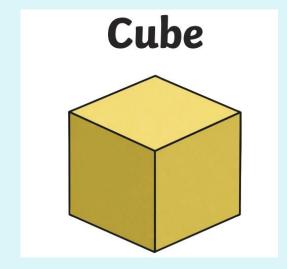
Self assessment

Do you understand what properties mean?

LQ: Can I describe the properties of 3D shapes?

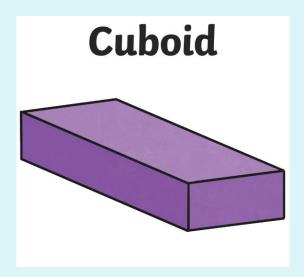
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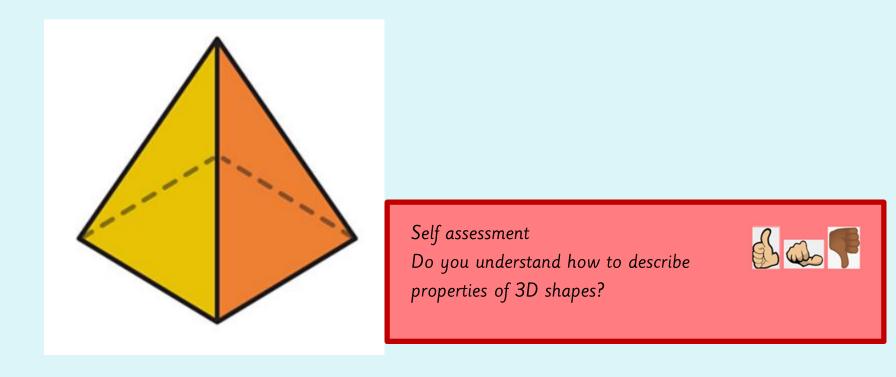
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TP – How are they the same/different?

LQ: Can I describe the properties of 3D shapes?

Describe the properties of a square base pyramid on your table.



TP – How many faces/vertices/edges does this shape have? How do you know?

LQ: Can I describe the properties of 3D shapes?

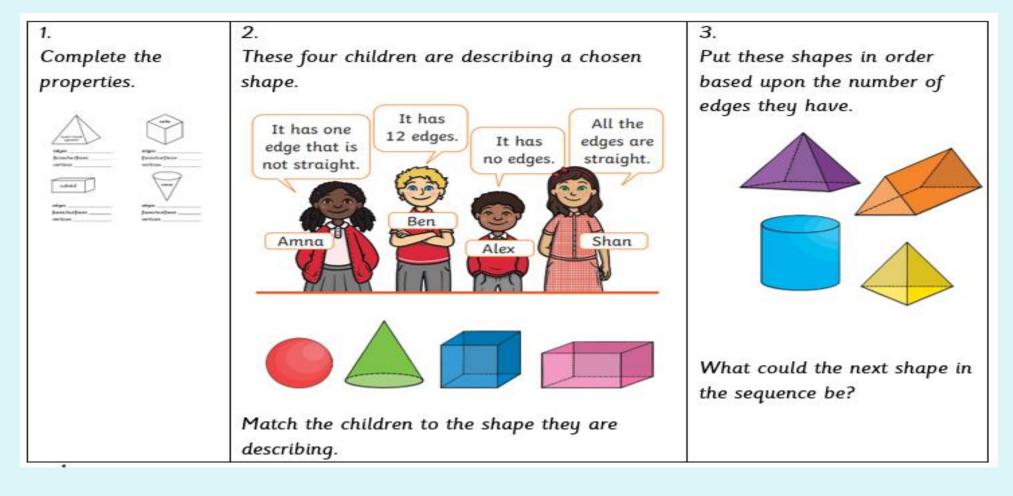
Complete the tasks in your book.

(recorded)

Self assessment

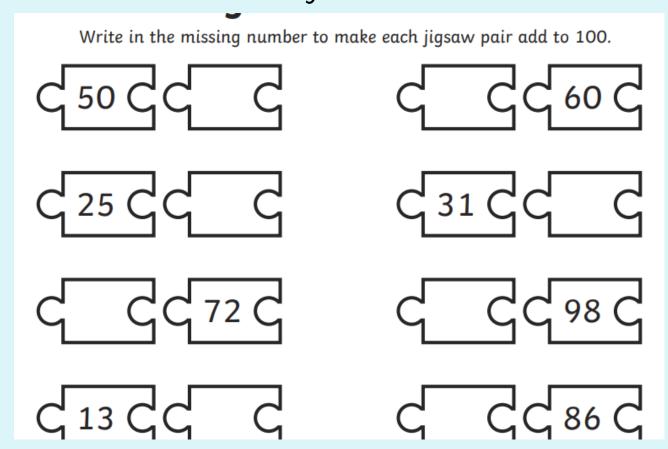
Do you understand what to do?





Mental Maths

Number Bonds of 10, 20 and 100





LQ: Can I sort 3D shapes according to their properties?



Steps to Success:

I can sort 3D shapes using Venn diagram.



vertex

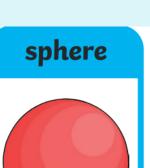
vertices

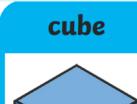
flat

curved

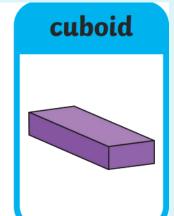
edges

faces







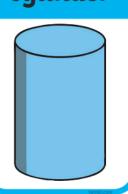


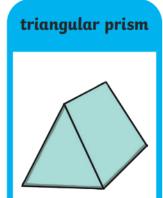
3D shapes

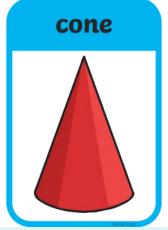
2D shapes

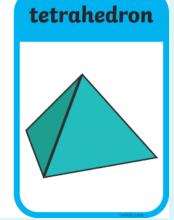
surface





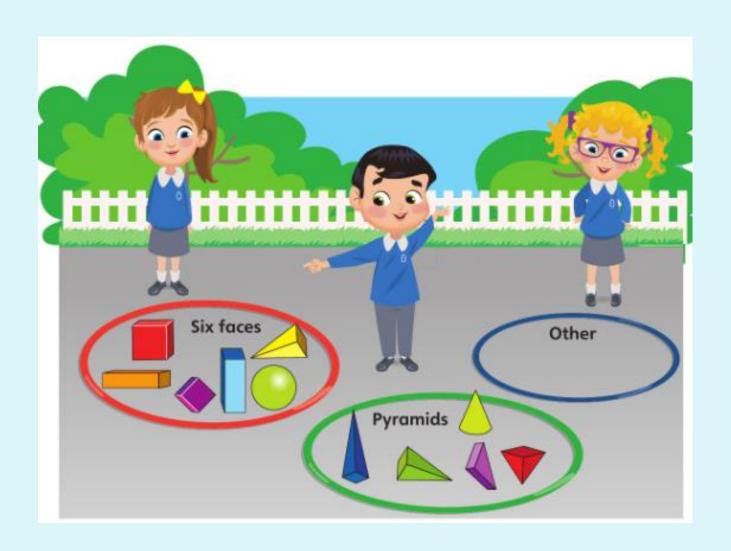




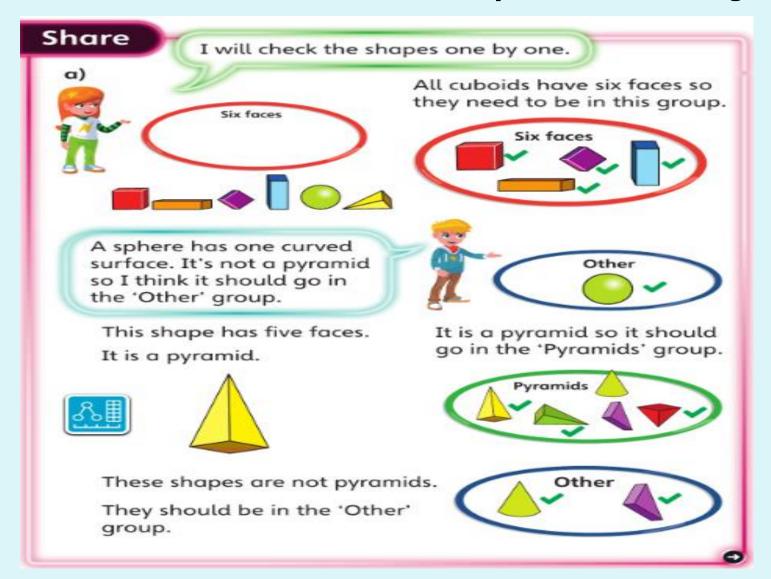


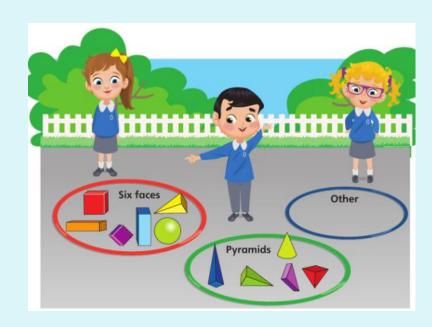
LQ: Can I sort 3D shapes according to their properties?

- a) Which shapes are in the wrong place?
- b) Can you think of a different shape that could go in both the 'six faces' group and the 'pyramids' group?

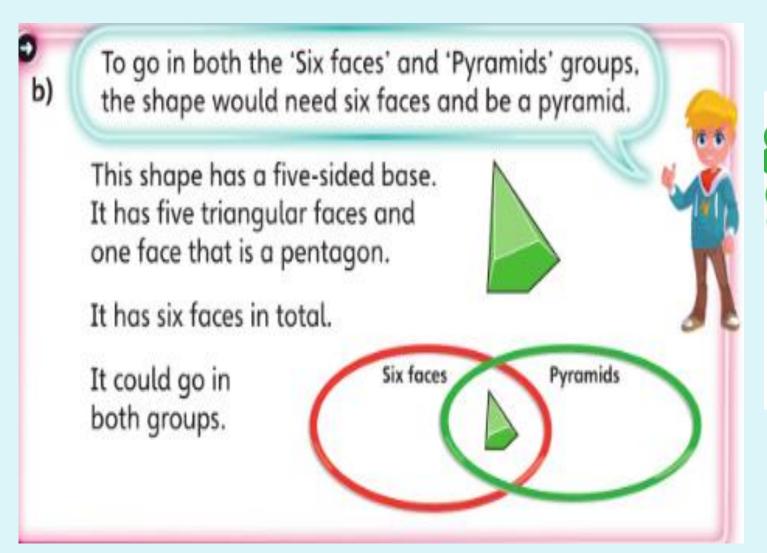


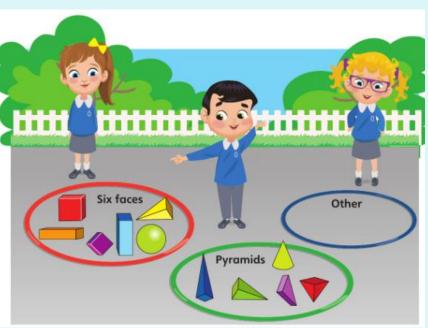
LQ: Can I sort 3D shapes according to their properties?





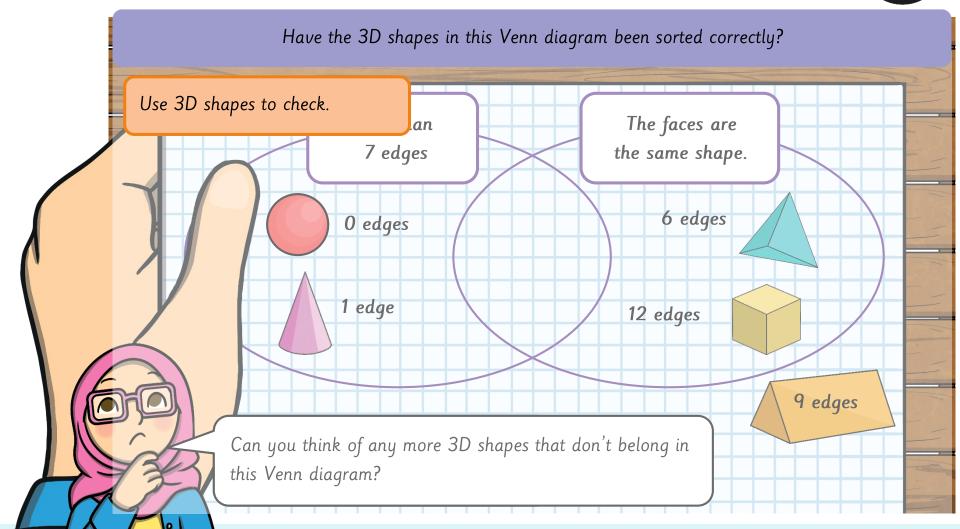
LQ: Can I sort 3D shapes according to their properties?





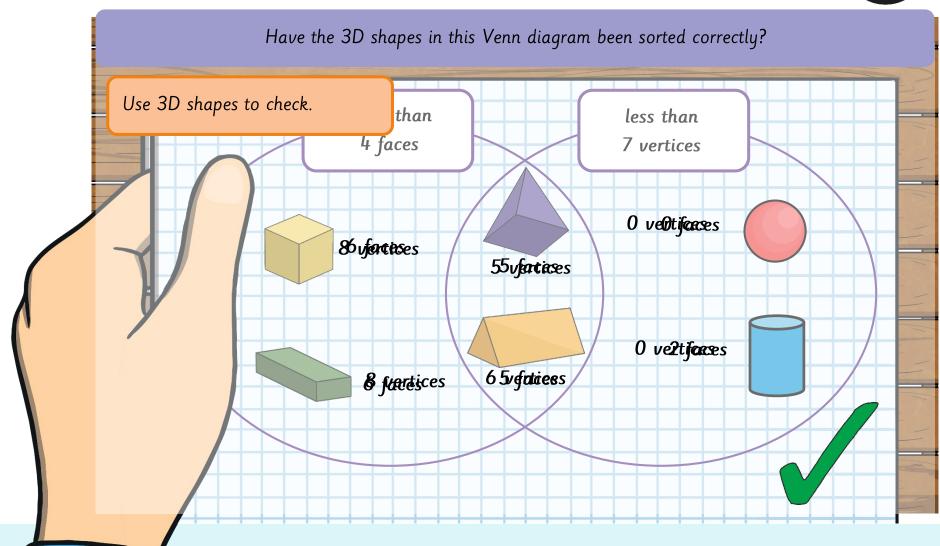
Remember It



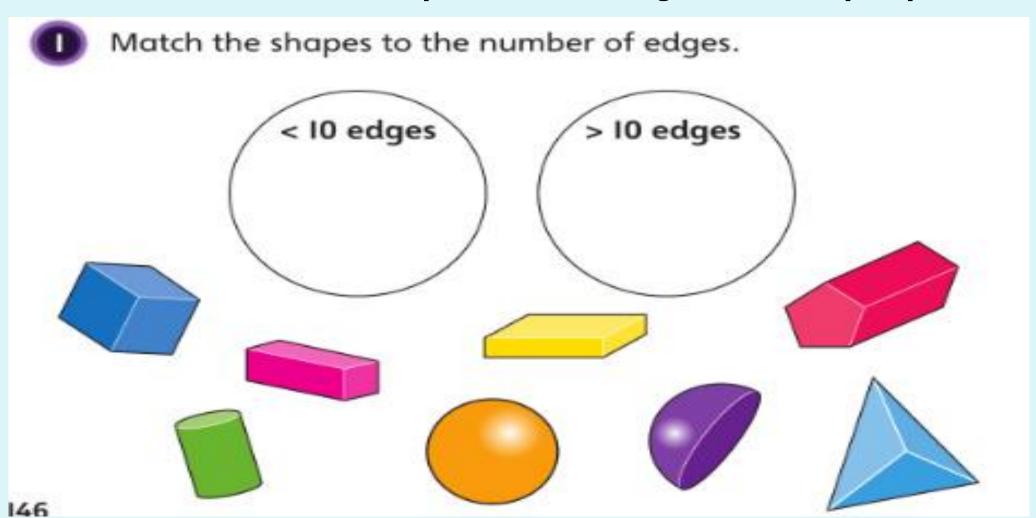


Remember It





LQ: Can I sort 3D shapes according to their properties?



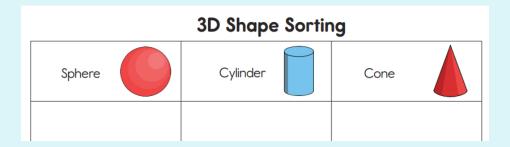
LQ: Can I sort 3D shapes according to their properties?

Put these shapes in order of the number of faces. fewest faces most faces

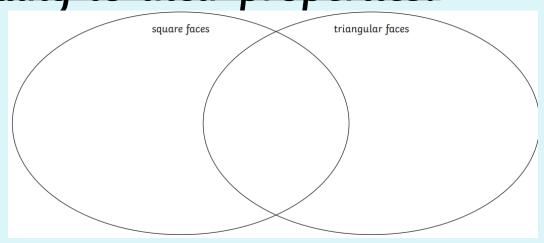
14.03.2024

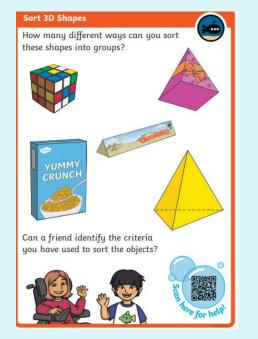
LQ: Can I sort 3D shapes according to their properties?

Complete the tasks in your books.





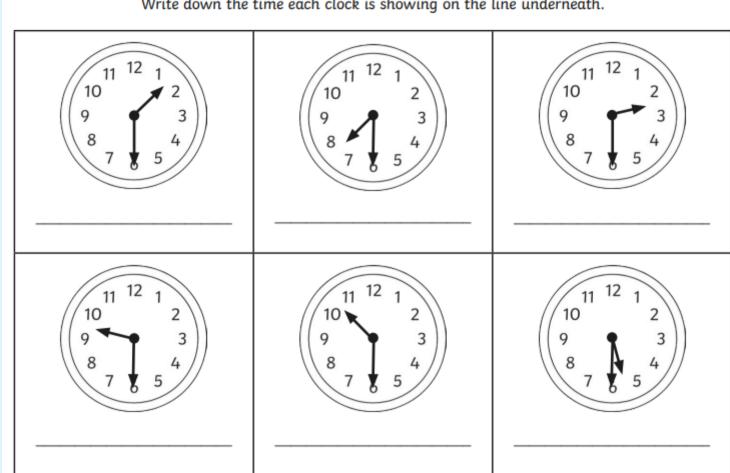






Mental Maths

Write down the time each clock is showing on the line underneath.





15.03.2024

LQ: Can I make patterns of 3D shapes?



Steps to Success:

I can spot and describe the core of a 3D shape pattern.

I can complete a 3D shape pattern.

I can predict which 3D shape will appear in a sequence.

I can create my own 3D shape pattern.



vertex

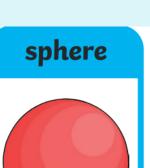
vertices

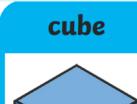
flat

curved

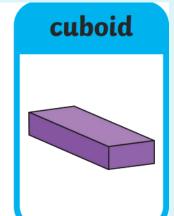
edges

faces







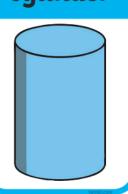


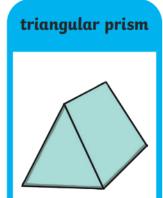
3D shapes

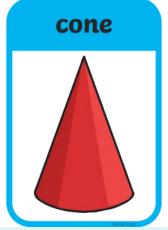
2D shapes

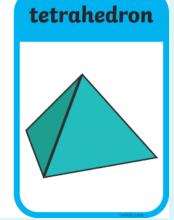
surface



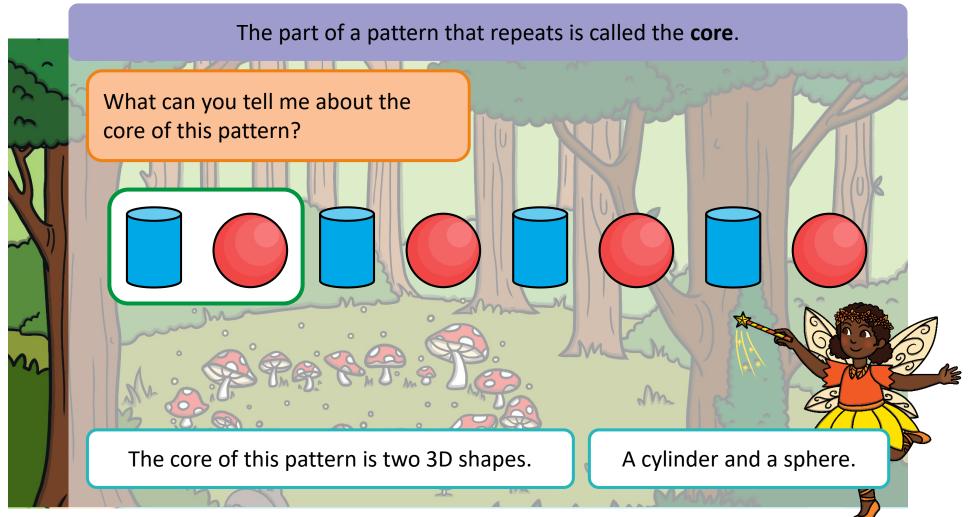




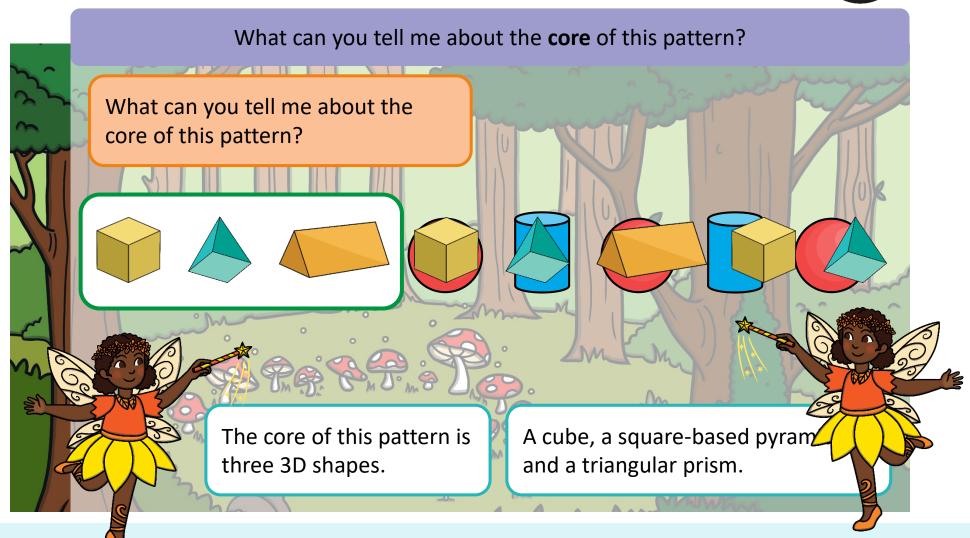




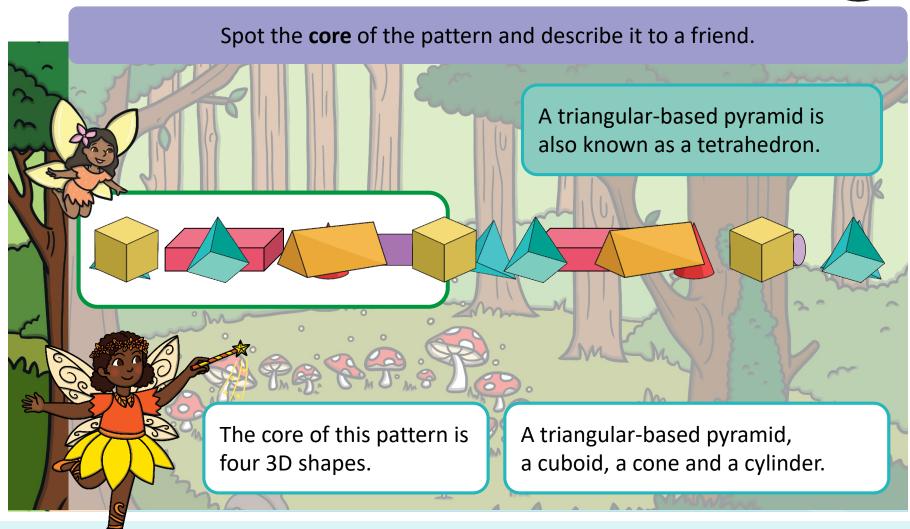




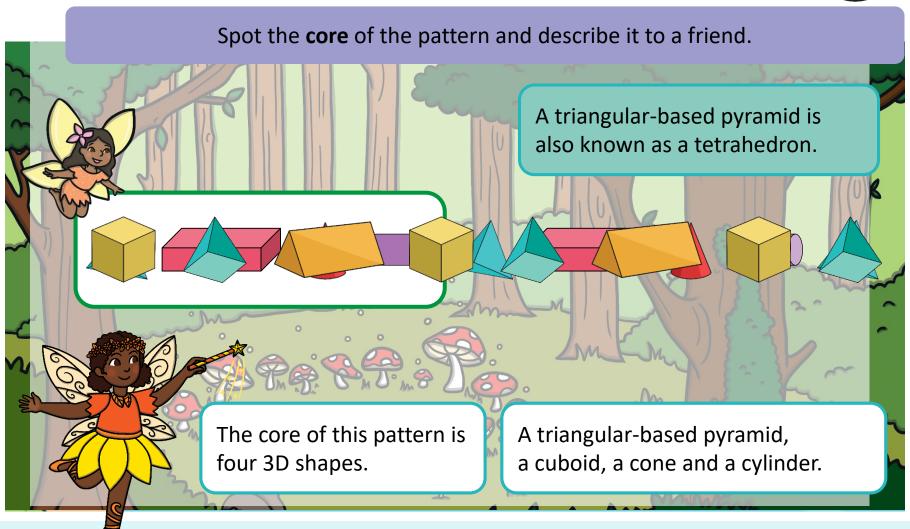




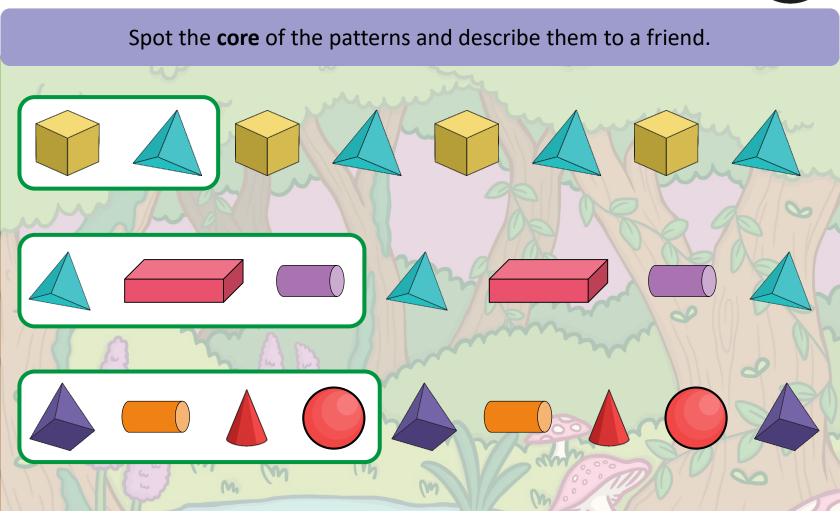




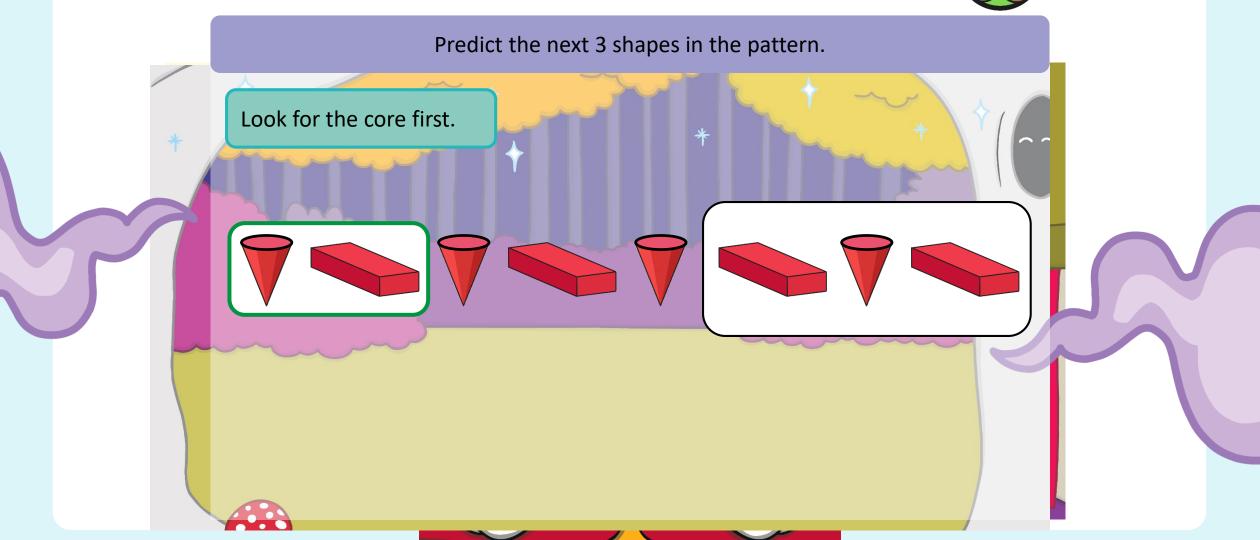




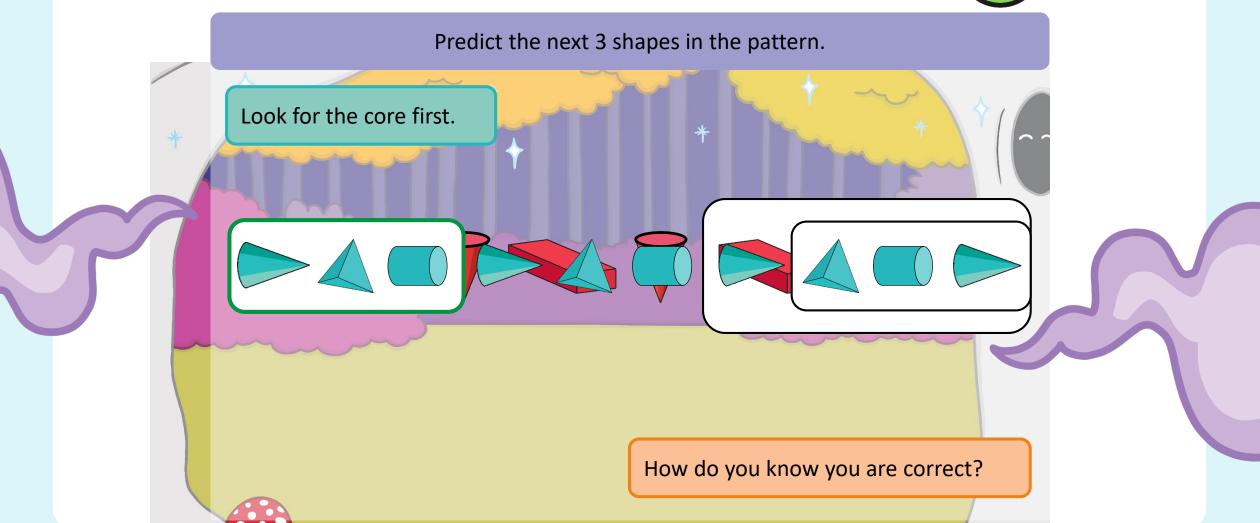




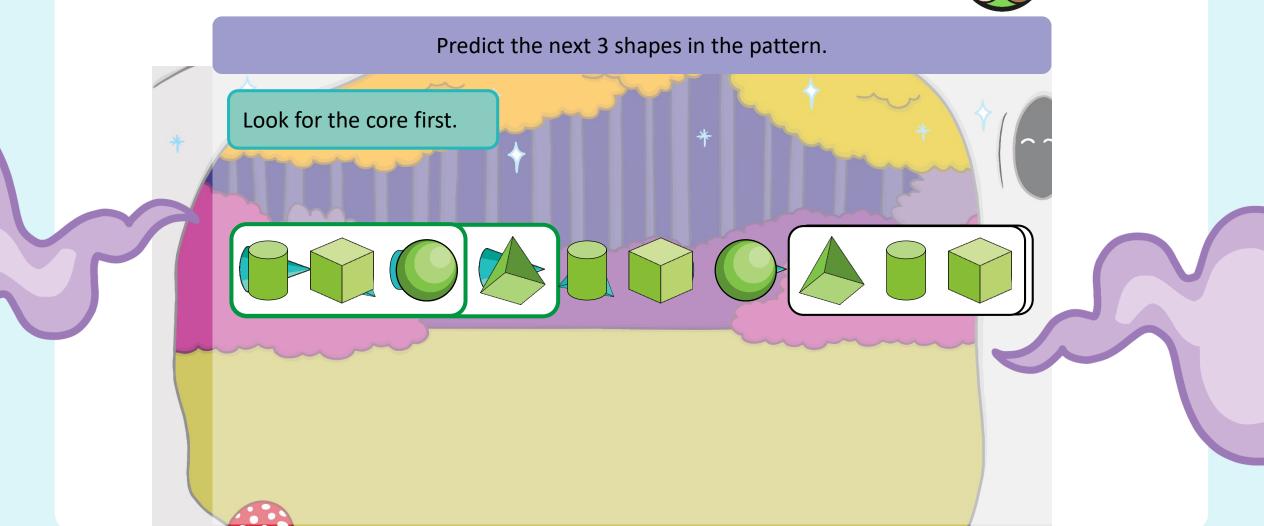




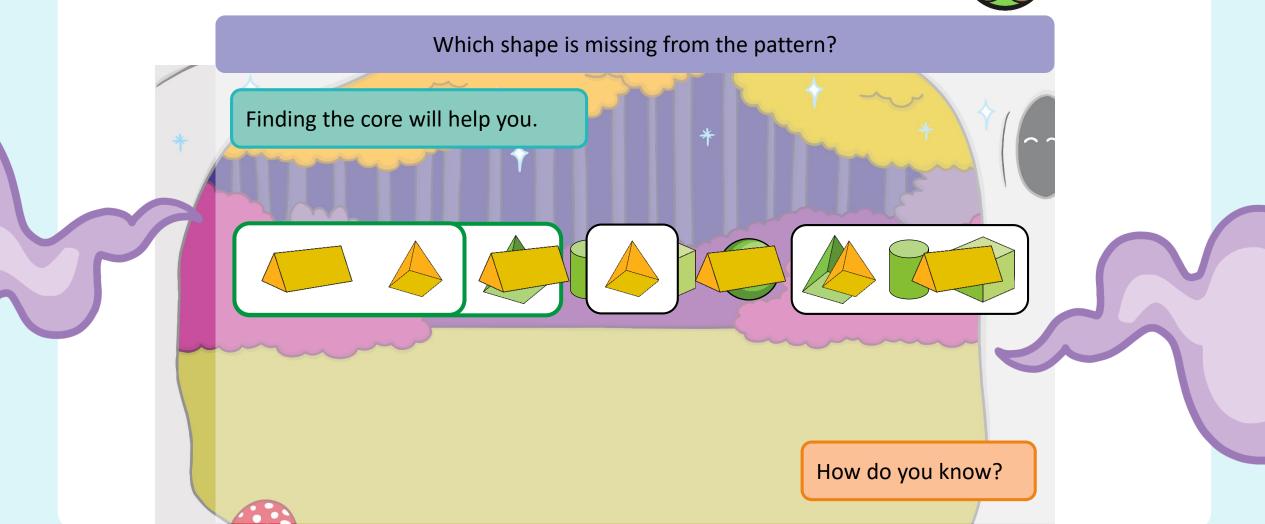




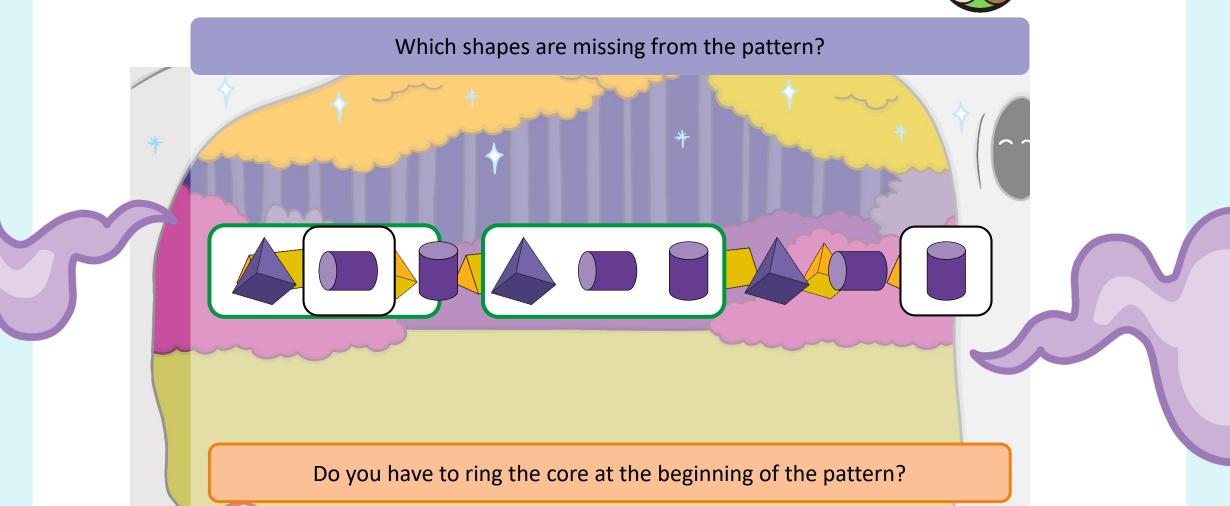




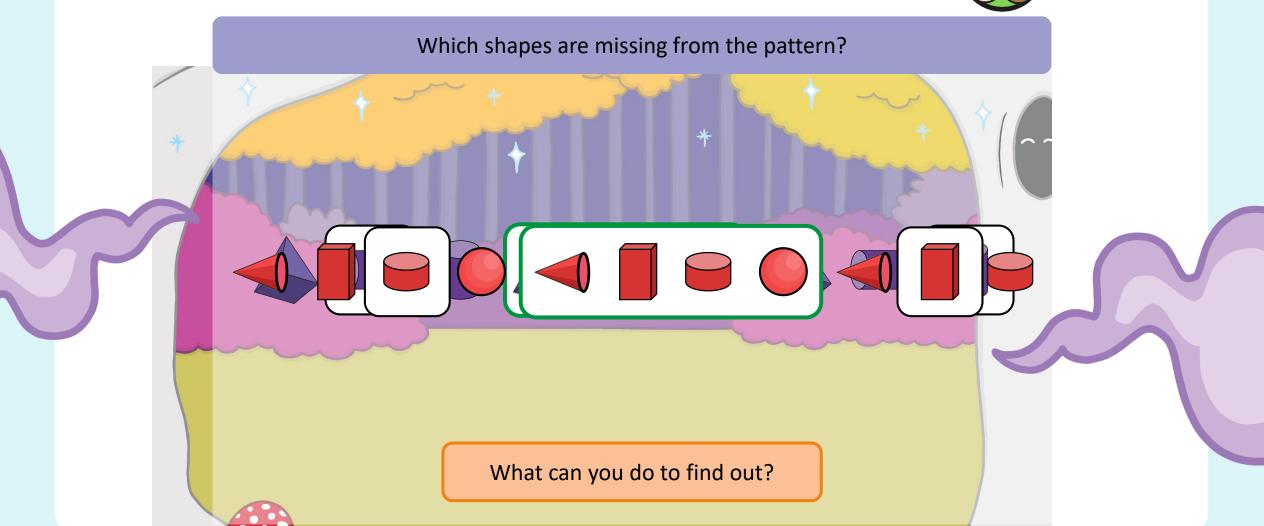




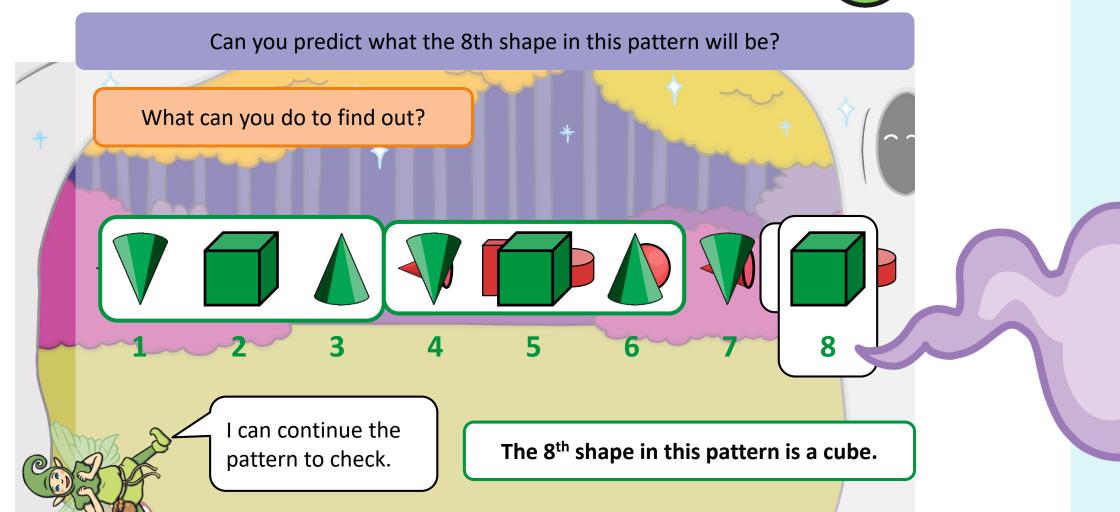










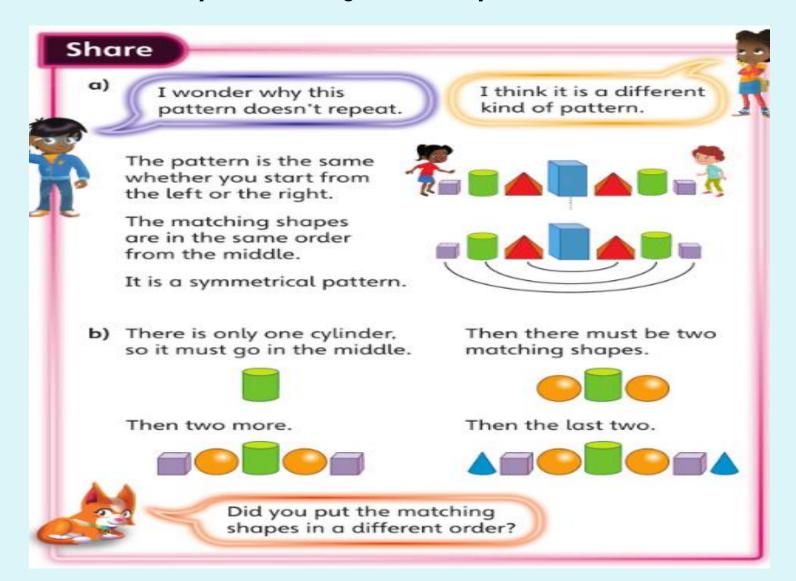


- a) Describe the pattern of3 D shapes.
- b) Create the same sort of pattern using these shapes.

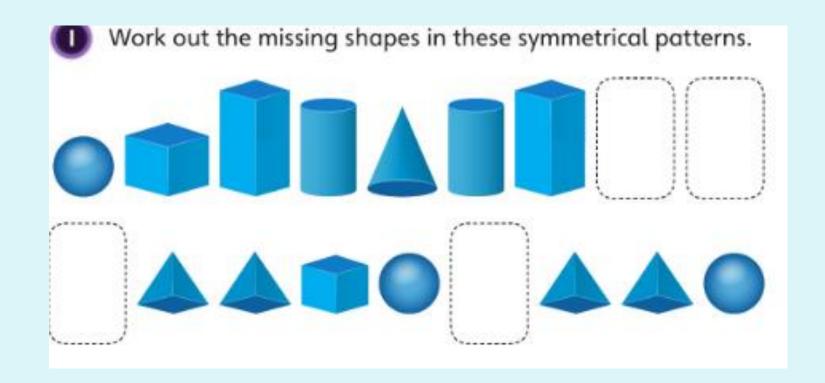


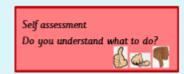


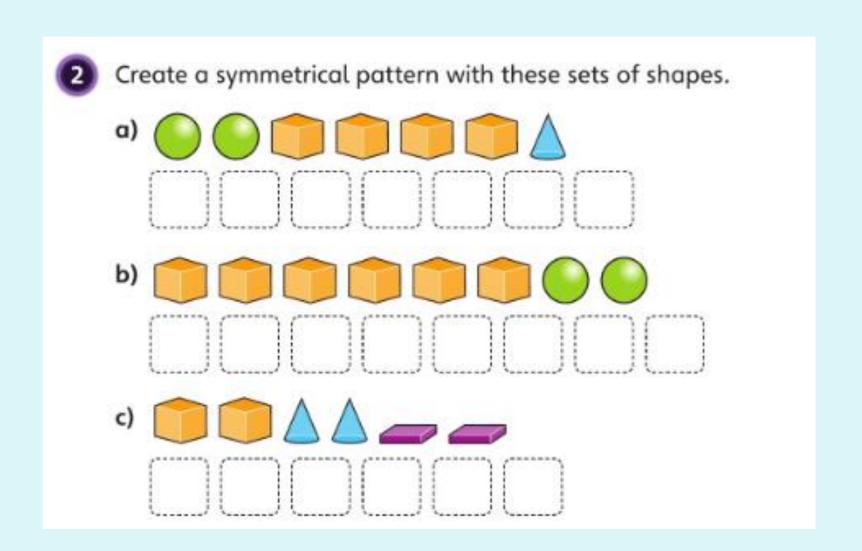


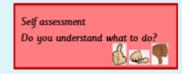












Complete the tasks in your books.

