Our Maths Learning Journey

Unit Fractions

1/2 and 1/4, 1/3

Non Unit fractions

2/4, 3/4

Key vocabulary:

Half

Quarter

Third

Equivalent

Equal part

Numerator

Denominator

Fraction

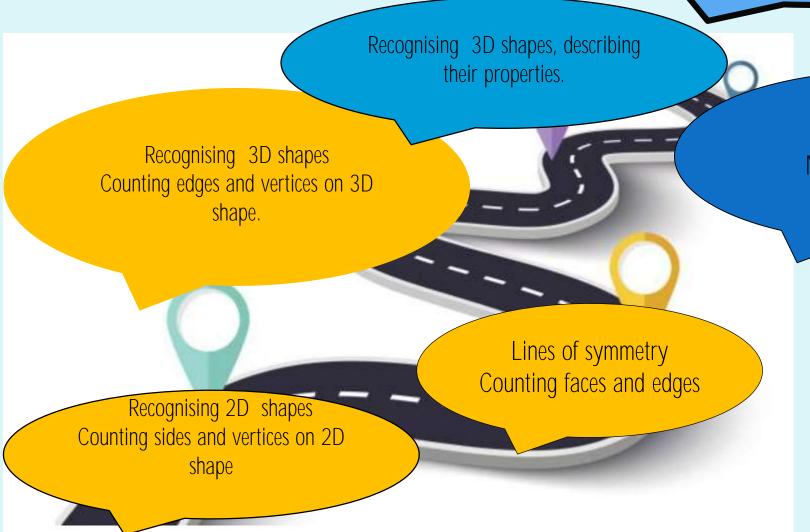
Unit fraction

Non-unit fraction

Edges

Vertices

Faces



Unit Fractions

1/2 and 1/4, 1/3

Non Unit fractions

2/4, 3/4

# Challenge of the week





#### Mental Maths

#### Look at these coins:













What is the largest amount you can make using **three** of these coins?



# LO: Can I recognise 3D

shapes?

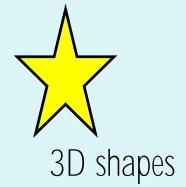
Steps to success



I can recognise 3D shapes.

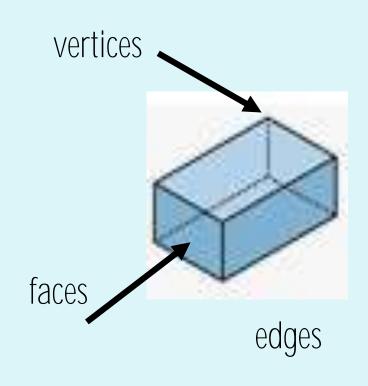
I can name 3D shapes.

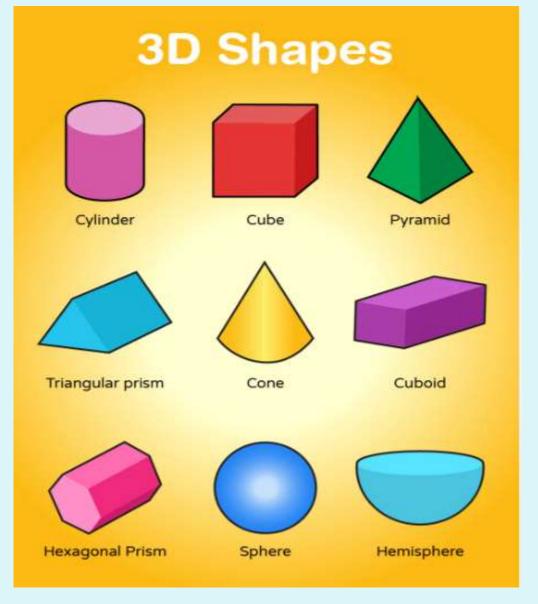
I can compare and identify similarities and differences between 3D shapes.



# Star words







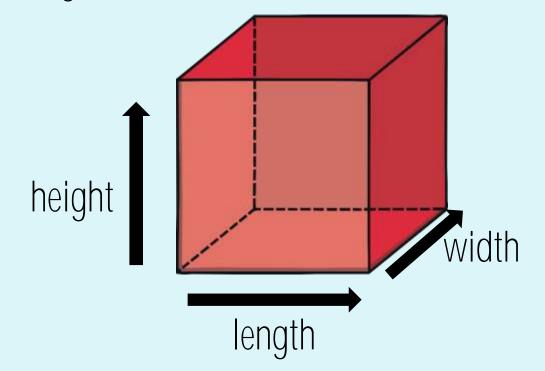
#### https://www.youtube.com/watch?v=2cg-Uc556-Q



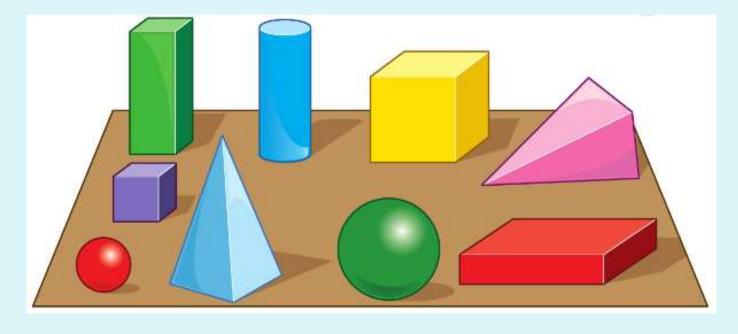
Today we are going to recap 3D shapes. What do you remember from Year 1?

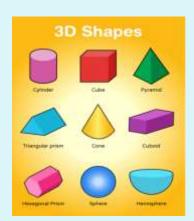
TPs: What is a 3D shape?

3D shapes are solid shapes. They are 3 dimensional meaning they have length, width and height.



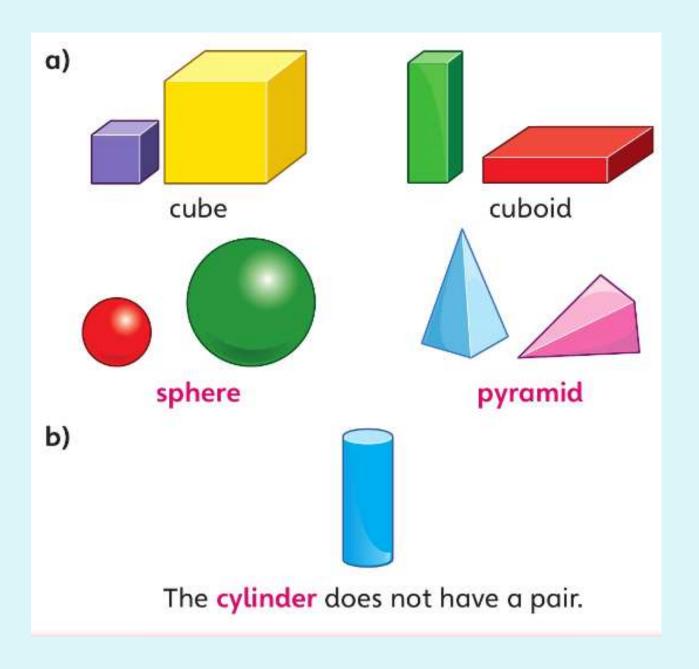
#### Let's name the shapes and pair them together.





TPs: What shape is the odd one out? Why?

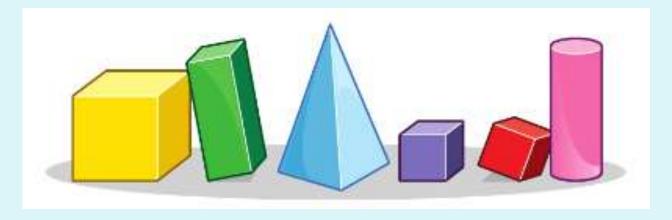
LO: Can L recognise 3D shapes?



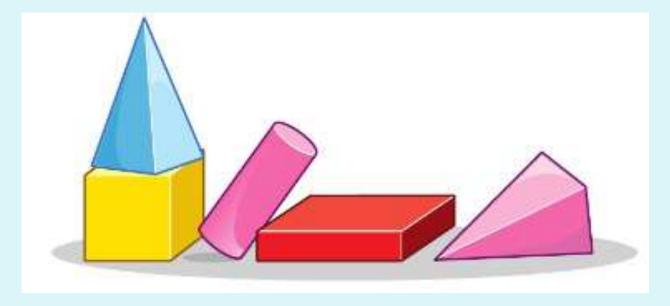
TPs: What is different about the cube and the cuboid?

Are they not the same?

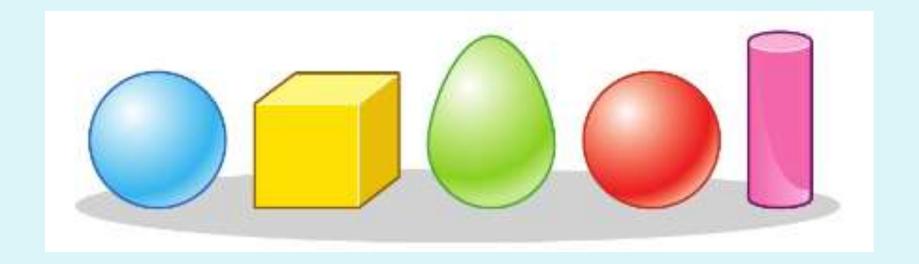
Circle the cubes.



How many pyramids are there?

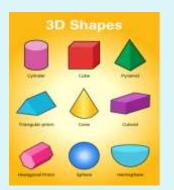


There are \_\_\_\_\_ pyramids.



How many shapes are not spheres?

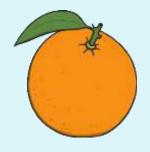
\_\_\_\_\_ shapes are not spheres.



3D shapes are all around us and we can find them in everyday objects.

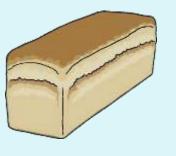
#### Let's say these 3D shape name together!





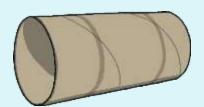












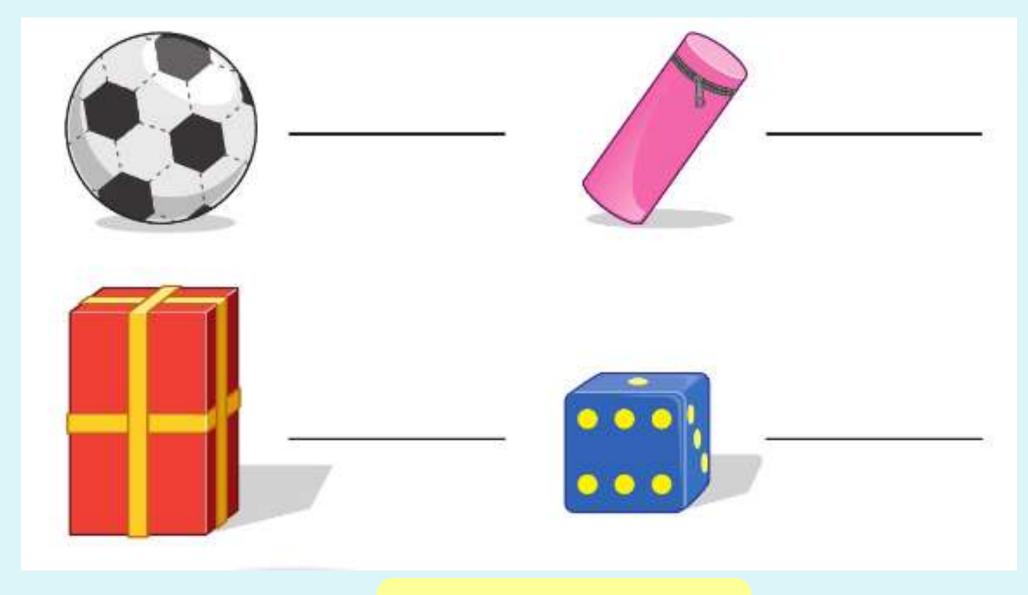




Self assessment
Can you name 3D shapes?



LO: Can I recognize 3D shapes?



Name the shapes.

### Your task

cube	sphere	cuboid	cylinder	cone

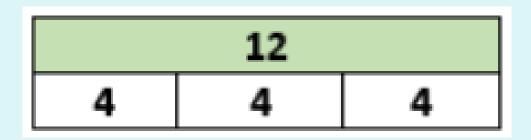
Practical

Name and sort the 3D shapes and objects in the groups.

Self\_assessment

Do you understand the task?

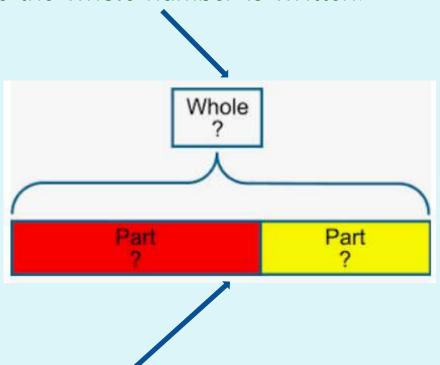




We can use a bar model for division to help us work out the groups (parts).

This is another representation of recording.

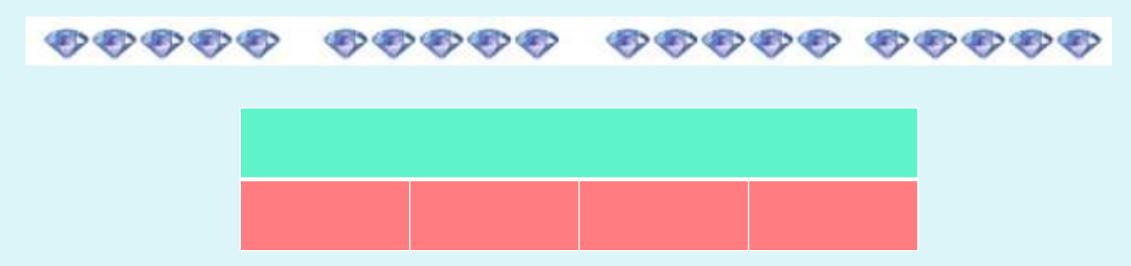
On the bar model there is one whole. This is where the whole number is written.



Below this are the parts. When we divide, there can be many parts.

#### **Mental Maths**

Let's share the 20 jewels between the 4 friends one by one.



They get \_\_\_\_ each.

Draw a bar model and split the bottom bar into four parts.



# LQ: Can I count faces on 3D shapes?



# Steps to Success:

I know what faces are.

I can count the faces of 3D shapes.

I can describe the 2D shapes within the 3D shape.



vertex

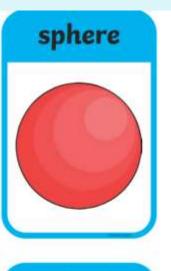
vertices

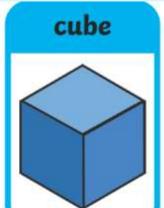
flat

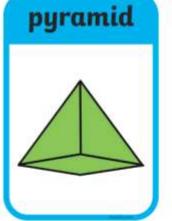
curved

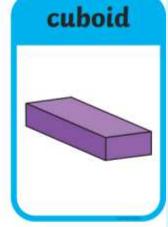
edges

faces





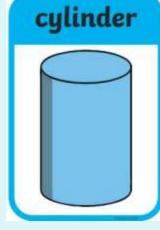


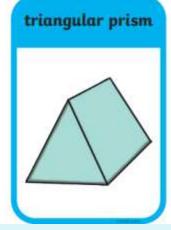


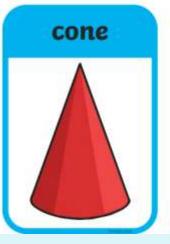


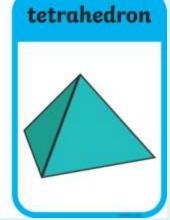
3D shapes

surface









#### LQ: Can I count faces on 3D shapes?



TP – What do you remember about 3D shapes?

Stem sentence:

'3D shapes are...'

What does properties mean?

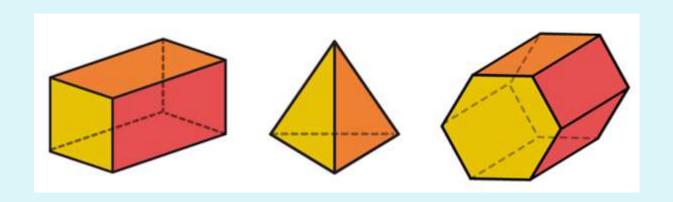
Stem sentence:

'Properties mean...'

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

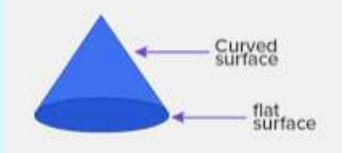
Do you understand what properties mean?

#### LQ: Can I count faces on 3D shapes?

Today you are going to describe the faces of 3D shapes. This is one of the properties of a 3D shape.

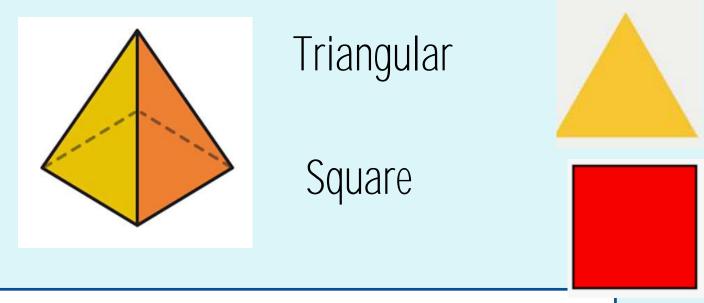
#### Let's recap

- > 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 count faces on 3D shapes?

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

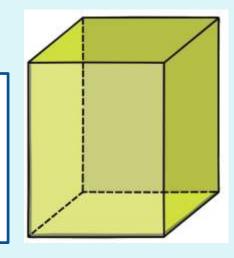


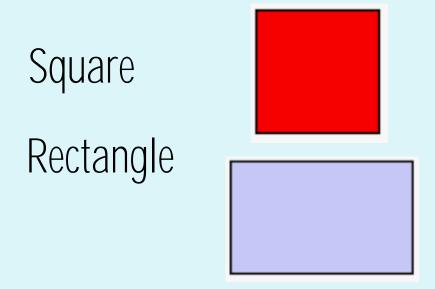
TP –How many faces does this shape have? How do you know? What 2D shapes are the faces?

#### LQ: Can I count faces on 3D shapes?

### Describe the properties of cuboid.

TP – How many faces does this shape have? How do you know? What 2D shapes are the faces?



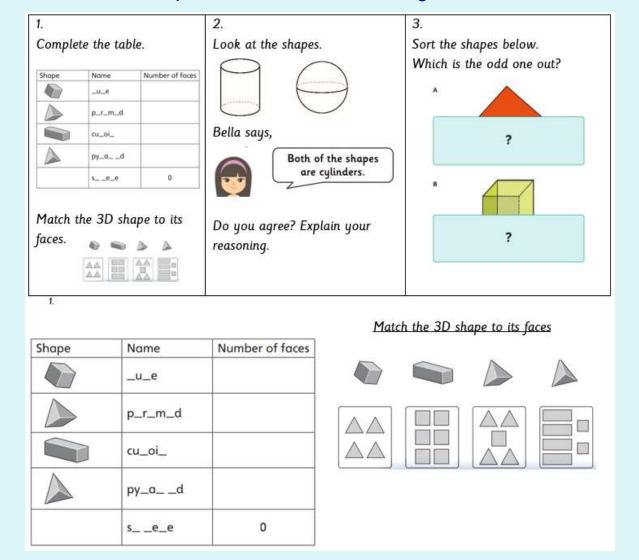


Self assessment

Do you understand what faces are on 3D shapes?

#### LQ: Can I count faces on 3D shapes?

#### Complete the tasks in your book.

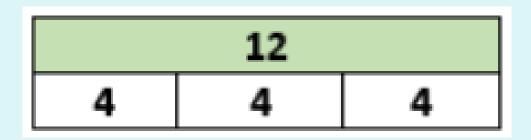


Self assessment

Do you understand what to do?



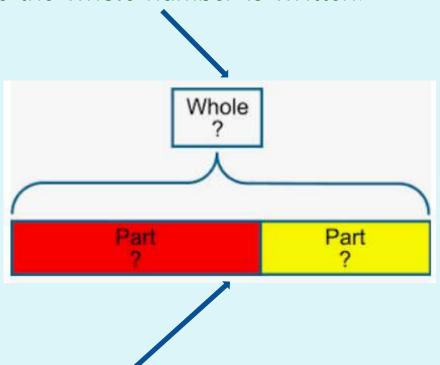




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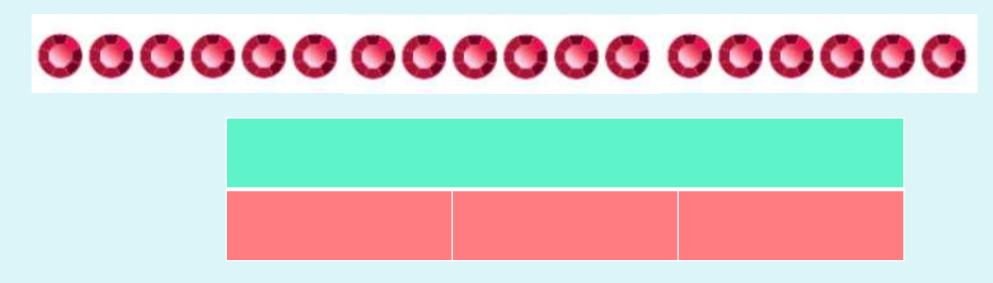
On the bar model there is one whole. This is where the whole number is written.



Below this are the parts. When we divide, there can be many parts.

#### **Mental Maths**

Let's share the 18 jewels between the 3 friends one by one.



They get \_\_\_\_ each.

Draw a bar model and split the bottom bar into three parts.



# LQ: Can I count edges on 3D shapes?



# Steps to Success:

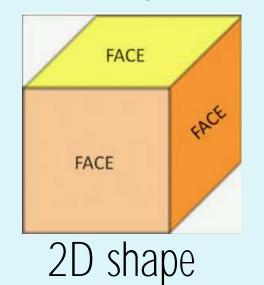
I know what edges are.

I can count the edges of 3D shapes.

I can describe some properties of 3D shape.

## 3D shapes

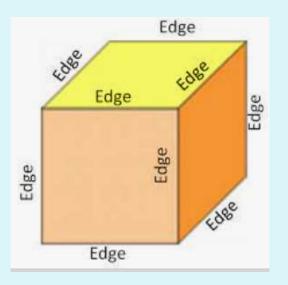


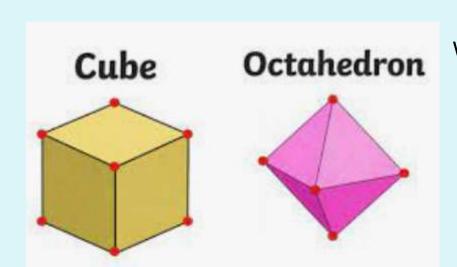


flat

faces

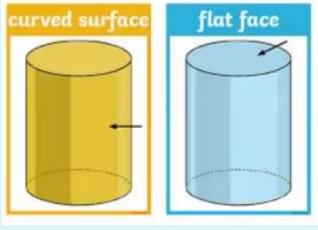
edges





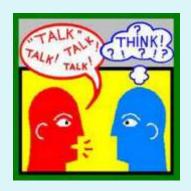
vertices

Vertex (1)



curved surface

#### LQ: Can I count edges on 3D shapes?



TP – What do you remember about 3D shapes?

Stem sentence:

'3D shapes are...'

What do properties mean?

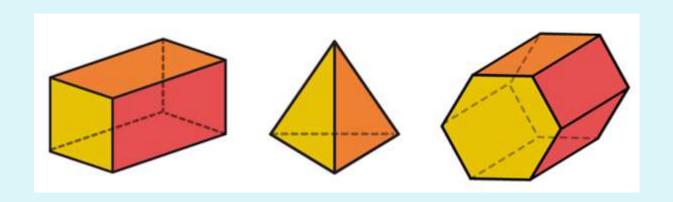
Stem sentence:

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#### LQ: Can I count edges on 3D shapes?

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

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

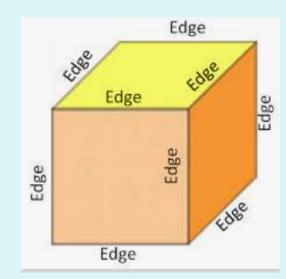


Self assessment

Do you understand what properties mean?

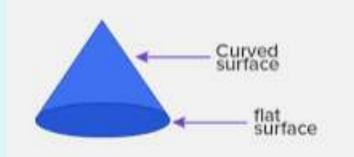
#### LQ: Can I count edges on 3D shapes?

Today you are going to count edges of 3D shapes. This is one of the properties of a 3D shape.



#### Let's recap

- > 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 count edges on 3D shapes?



Hassan wants to make his own

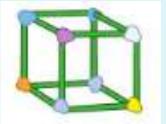


TP: How many straws does he need?

There are three different : small, medium and large.







TP: What stays the same and what changes?

LQ: Can I count edges on 3D shapes?

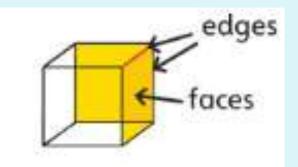
I can see only the edges of the shape.



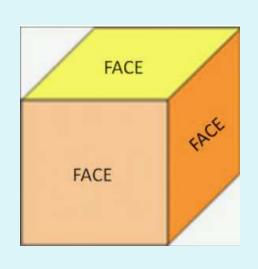
TP: What does it look like?

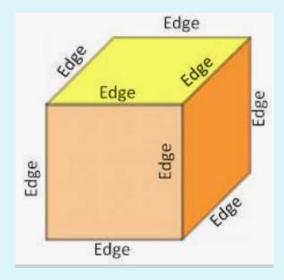


It looks like a cube but it does not have any faces. I wonder what it is.



A 3D shape has edges where two faces meet.





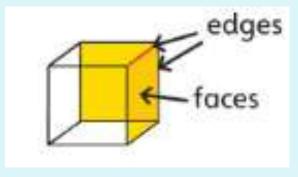
LQ: Can I count edges on 3D shapes?

Now use the given straws and make the cube.

TP: How many straws did you use? How many edges does the cube have?

A cube has 12 edges. In there is one straw for each edge. We need 12 straws to make a







Self assessment

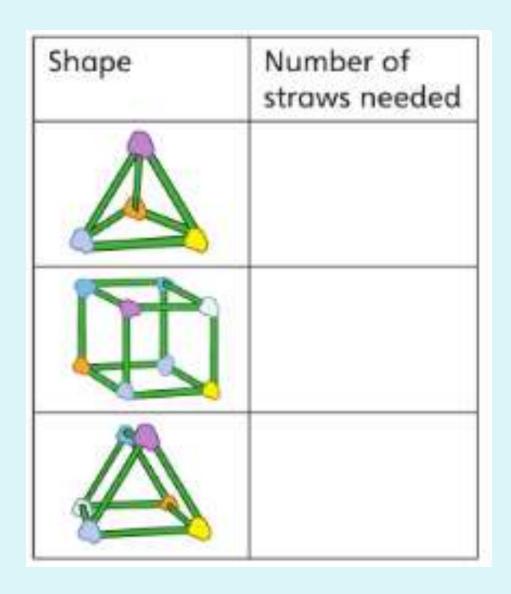
Do you understand what address

Do you understand what edges are and how to count them on 3D shapes?



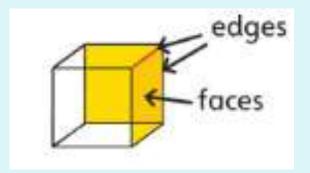






The last shape has a triangle at each end. It is called a triangular prism.



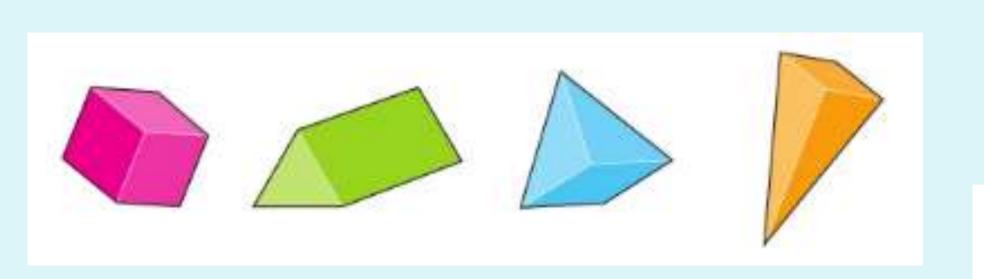


Self assessment
Do you understand how to count them on 3D shapes?

Sam has eight straws to make the edges of a 3D shape.

TP: Which shape can she make?

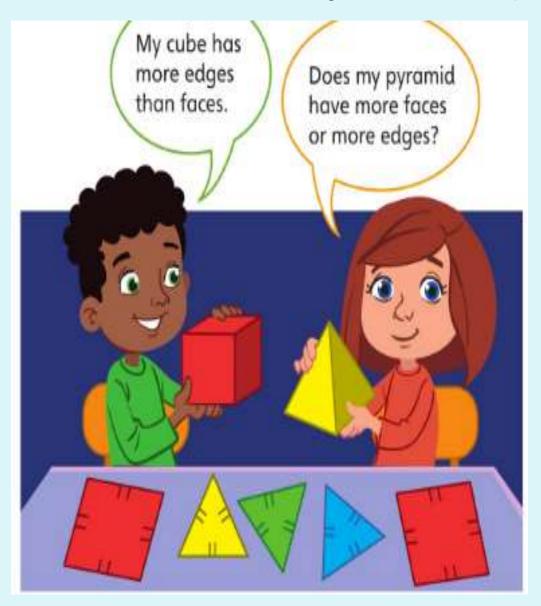
Work with your partner and make 3D shape using only 8 straws.





06.03.2024 Take photos

### LQ: Can I count edges on 3D shapes?



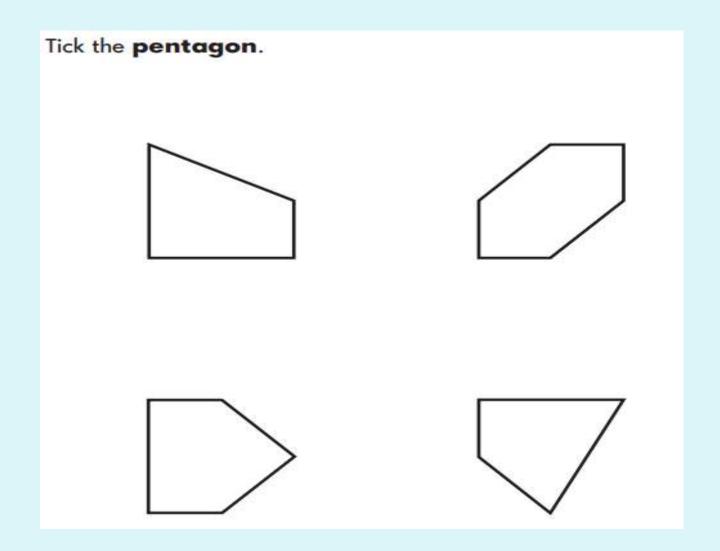
## Next step:

Malik and Abbie are making shapes from construction materials.

Does a 3D shape always have more edges than faces?



# Mental Maths





# LQ: Can I count edges on 3D shapes?



# Steps to Success:

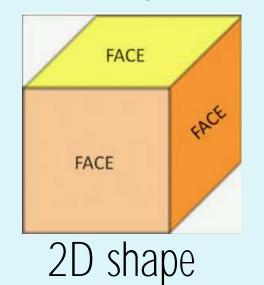
I know what edges are.

I can count the edges of 3D shapes.

I can describe some properties of 3D shape.

# 3D shapes

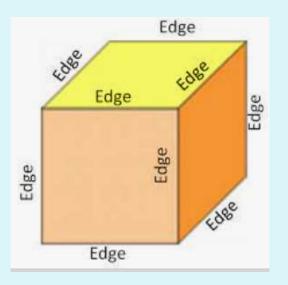


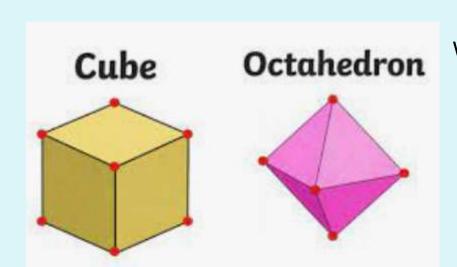


flat

faces

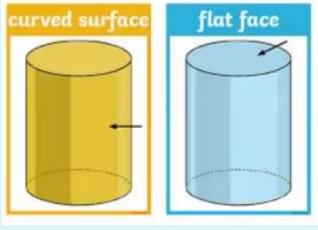
edges





vertices

Vertex (1)



curved surface



TP – What do you remember about 3D shapes?

Stem sentence:

'3D shapes are...'

What does properties mean?

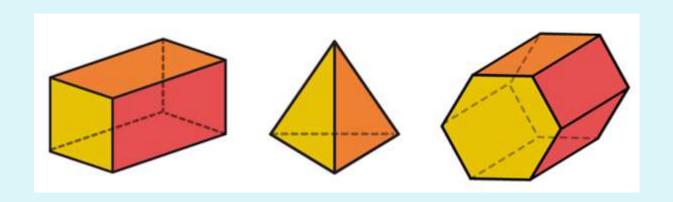
Stem sentence:

'Properties mean...'

## LQ: Can I count edges on 3D shapes?

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

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



Self assessment

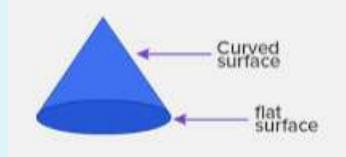
Do you understand what properties mean?

## LQ: Can I count edges on 3D shapes?

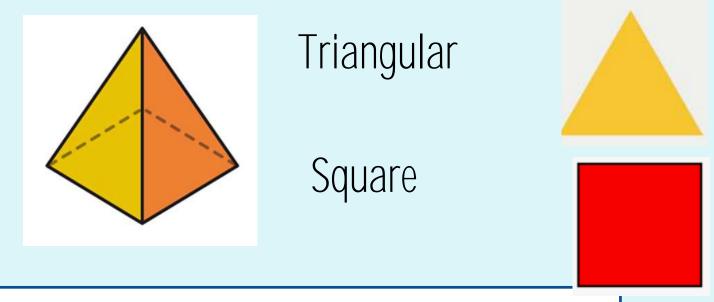
Today you are going describe the edges of 3D shapes. This is one of the properties of a 3D shape.

#### Let's recap

- > 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.



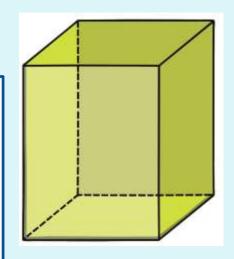
Describe the properties of a square base pyramid on your table.

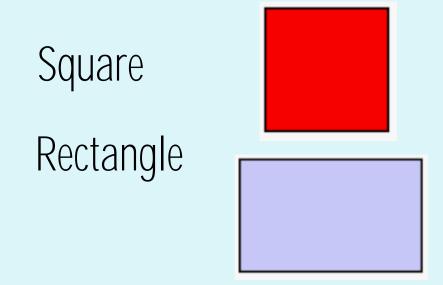


TP –How many edges does this shape have? How many faces does this shape have? How do you know? What 2D shapes are the faces?

## Describe the properties of cuboid.

TP – How many edges does this shape have? How many faces does this shape have? How do you know? What 2D shapes are the faces?





Self assessment

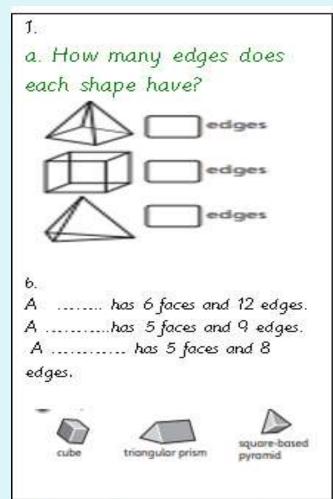
Do you understand how to count faces and edges 3D shapes?

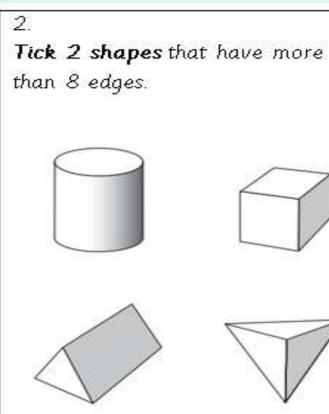
## Complete the tasks in your book.

Self assessment

Do you understand what to do?

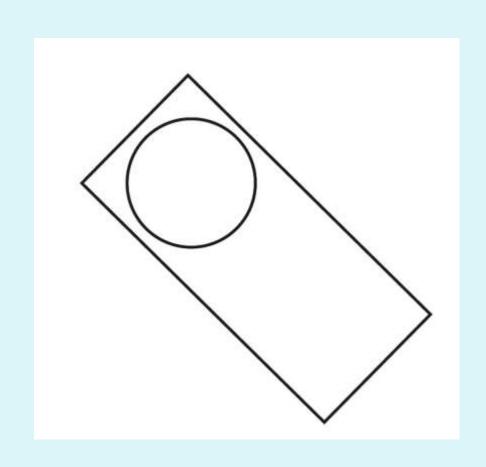






3 Maddy made five sticks How many sticks did she use in total? Sentence starter: Maddy used ,.... b) Gabriel used 50 sticks to make How many did he make? Sentence starter: Gabriel made .....

# Mental Maths



Tick the names of the <b>two</b> shapes in this picture.	
Tick two.	
triangle	
square	
rectangle	
circle	
hexagon	



# LQ: Can I count vertices on 3D shapes?



# Steps to Success:

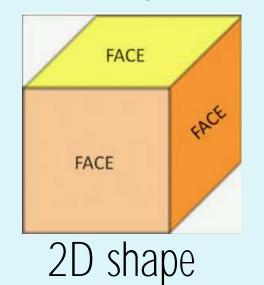
I know what vertices are.

I can count the vertices of 3D shapes.

I can describe properties of 3D shape.

# 3D shapes

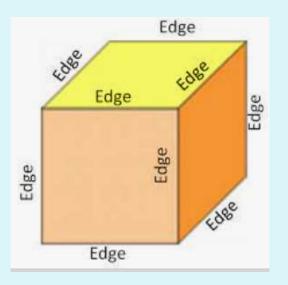


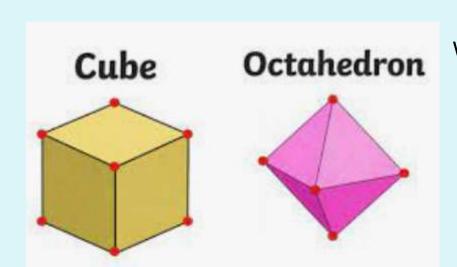


flat

faces

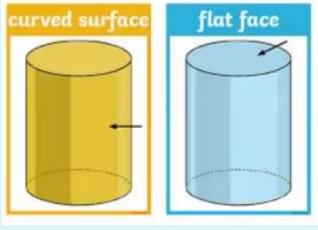
edges





vertices

Vertex (1)



curved surface



TP – What do you remember about 3D shapes?

Stem sentence:

'3D shapes are...'

What does properties mean?

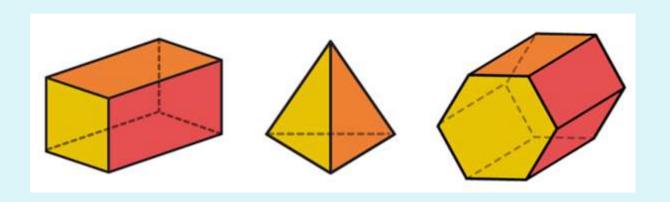
Stem sentence:

'Properties mean...'

## LQ: Can I count vertices on 3D shapes?

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

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



Self assessment

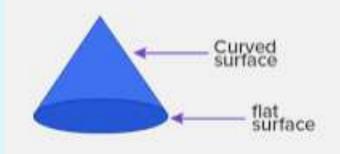
Do you understand what properties mean?

#### LQ: Can I count vertices on 3D shapes?

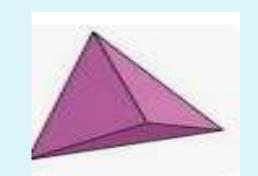
Today you are going to count vertices of 3D shapes. This is one of the properties of a 3D shape.

#### Let's recap

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



# LQ: Can I count vertices on 3D shapes?





Eva is making a triangle-based pyramid.

TP: How many marshmallows does she need?

# LQ: Can I count vertices on 3D shapes?



Eva is making a triangle-based pyramid.

Eva makes the base first.

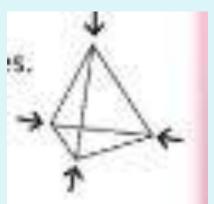
Eva uses 3 sticks and joins them at one vertex at the top.

There is a marshmallow at each vertex.





A pyramid with a triangle base has four vertices. Eva needs four marshmallows for this pyramid.



LQ: Can I count vertices on 3D shapes?

Now you are going to make square based pyramid.



TP: How many sticks will you need? How many marshmallows will you need?

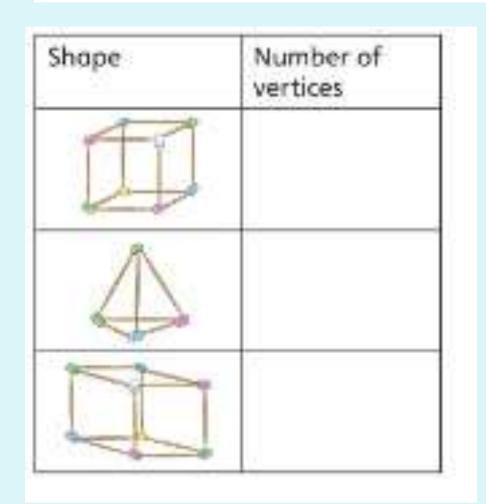


A pyramid with a square base has five vertices. You need five marshmallows for this pyramid.



# LQ: Can I count vertices on 3D shapes?

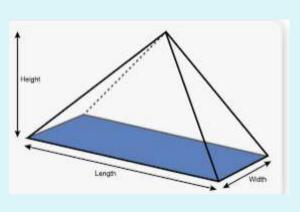
TP: How many vertices does each shape have?

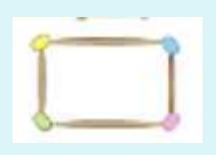




Now we are going to make different pyramids. Each pyramid has a different base. Choose one.







# LQ: Can I count vertices on 3D shapes?

## Next step

