### Our Maths Learning Journey

shape

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

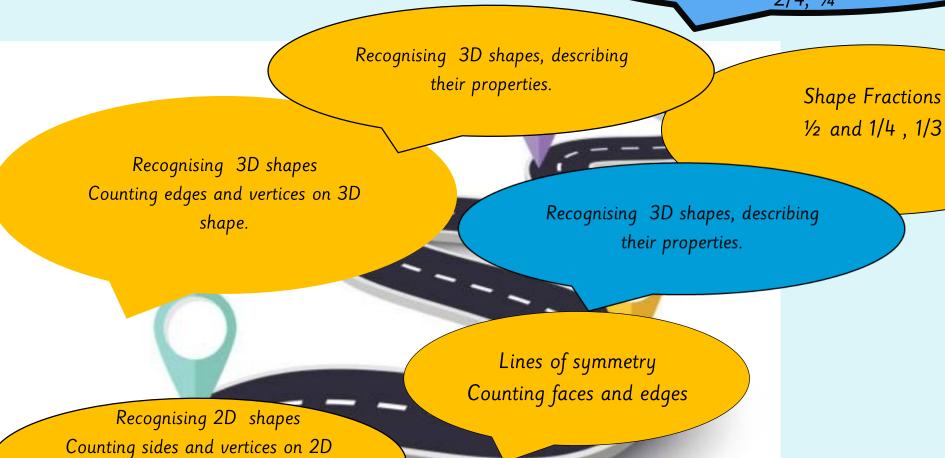
Unit fraction

Non-unit fraction

Edges

**Vertices** 

Faces



### Challenge of the week

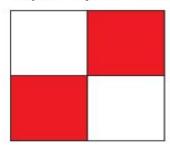


a) Is this shape split into two equal parts? Explain your answer.

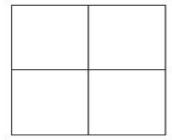




b) Is this shape split into two equal parts? Explain your answer.



c) How many other ways can you split this shape into two equal parts?





I wonder if  $\frac{1}{2}$  always has to be equal parts?





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

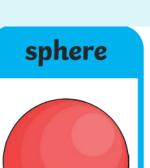
vertices

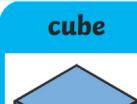
flat

curved

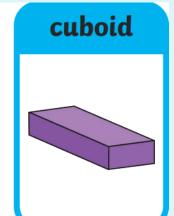
edges

faces







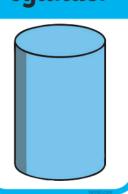


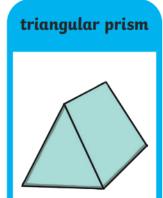
3D shapes

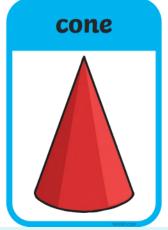
2D shapes

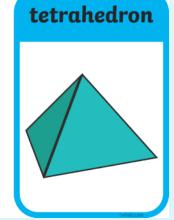
surface



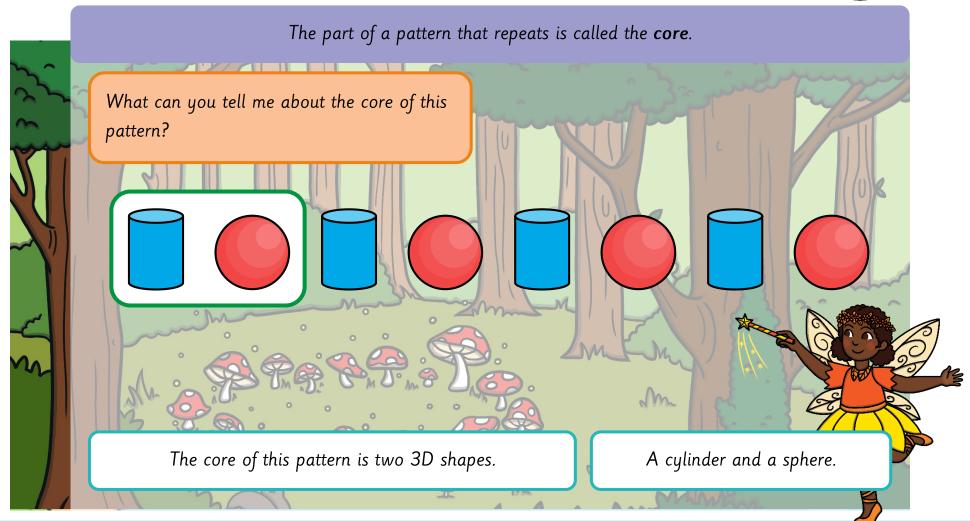




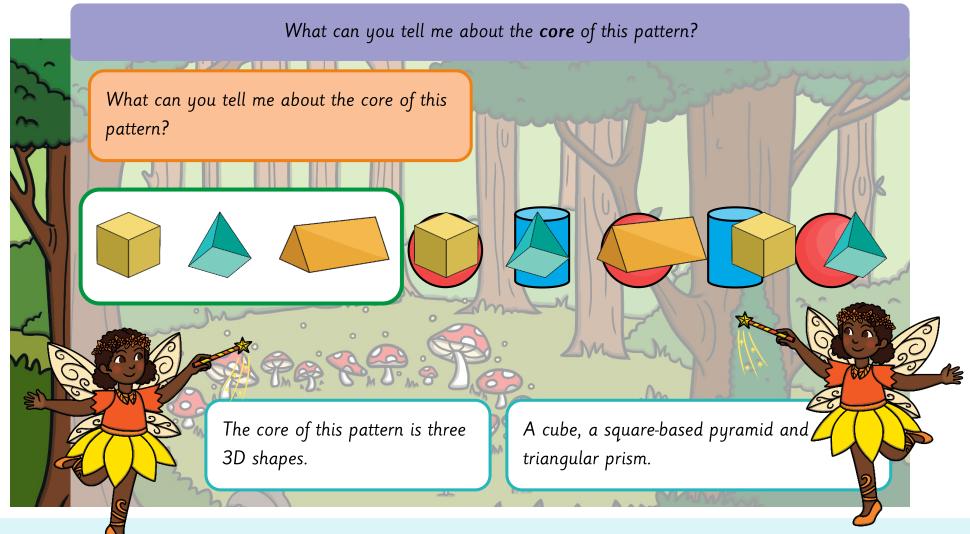




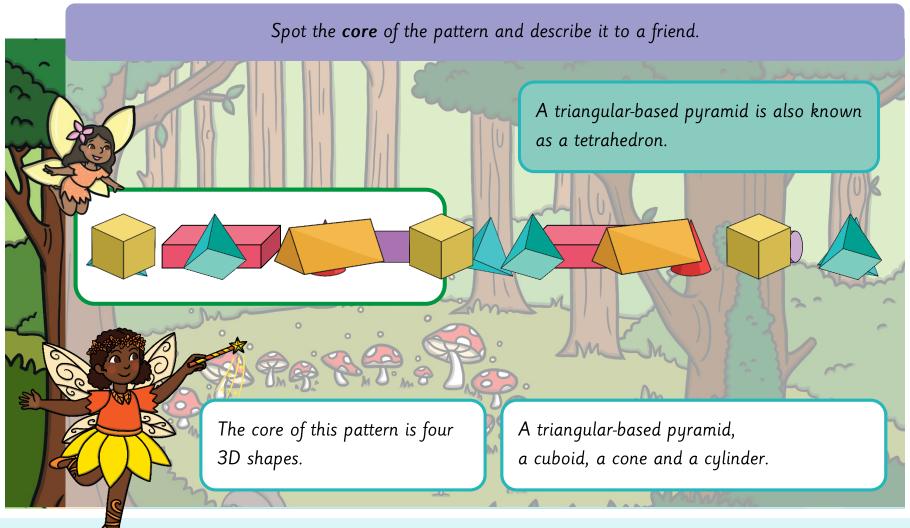




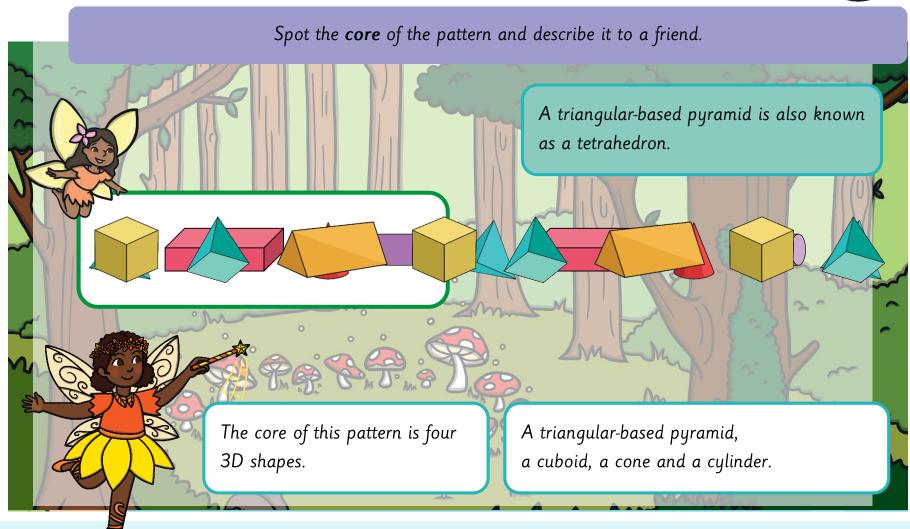




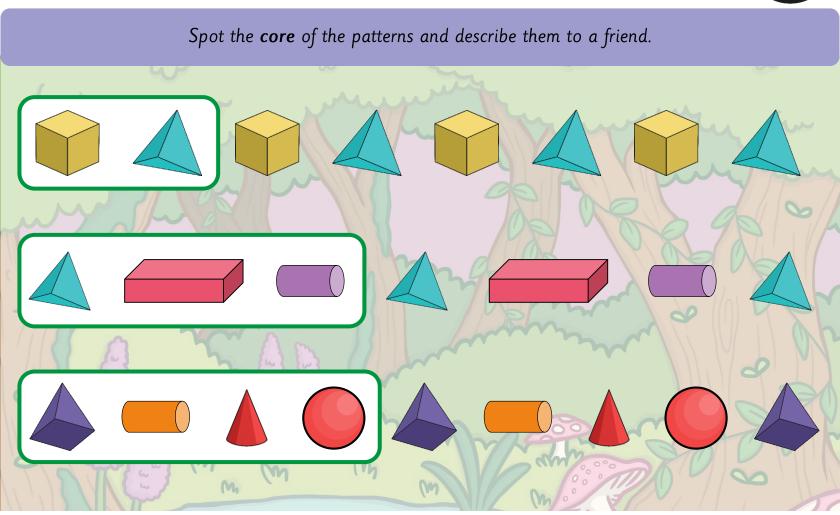




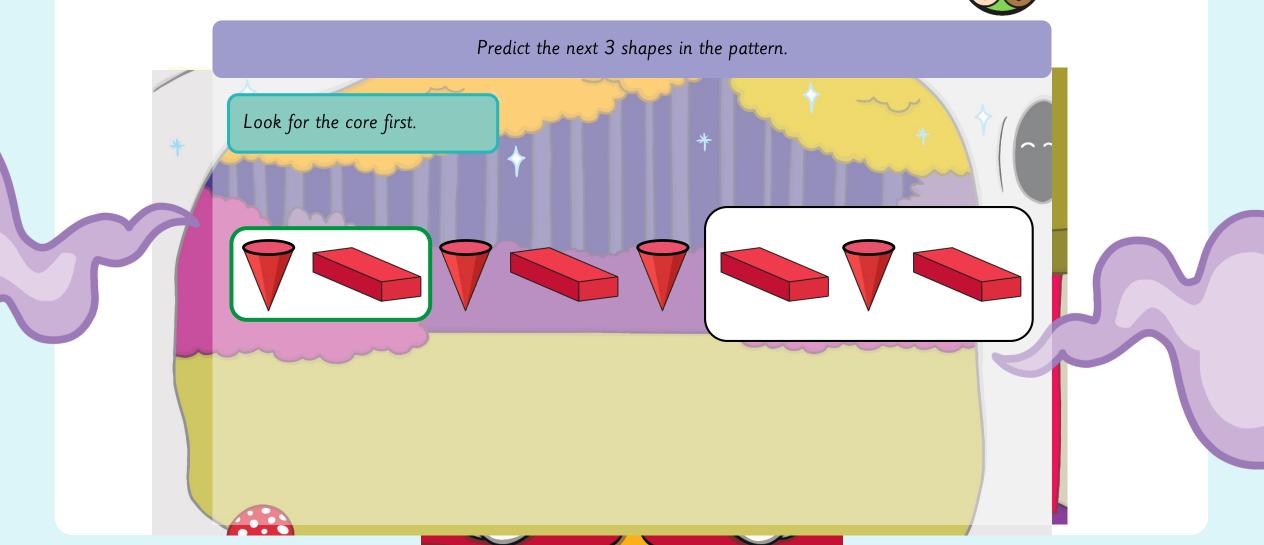




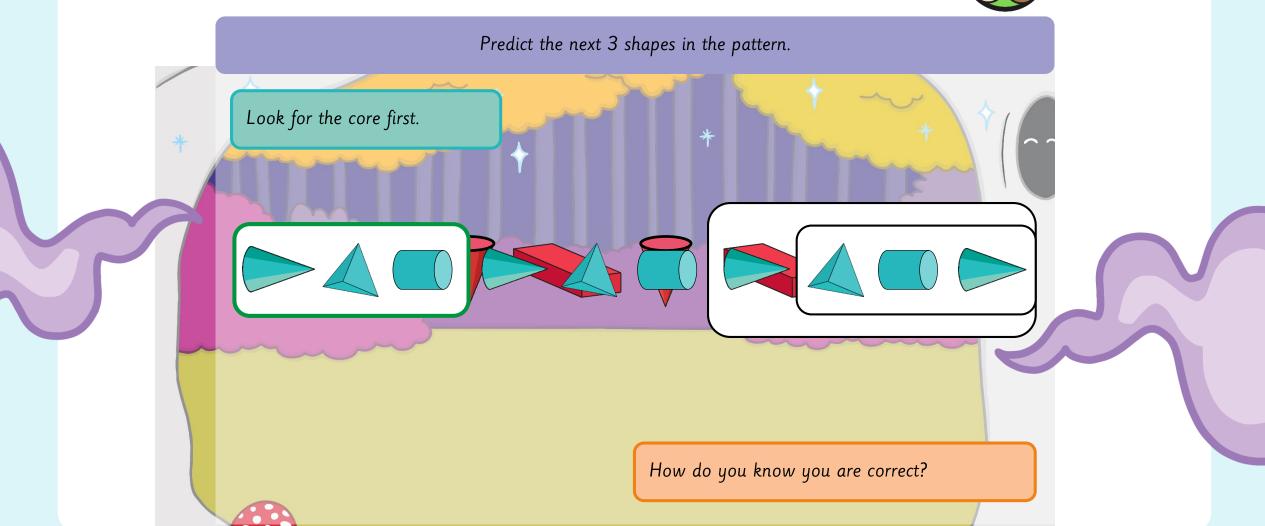




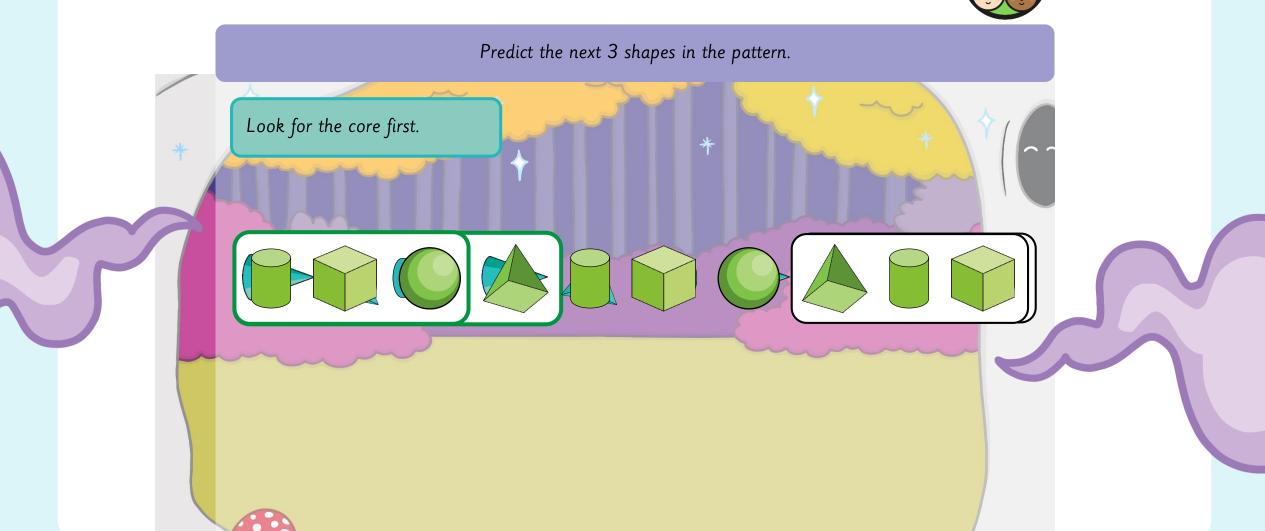




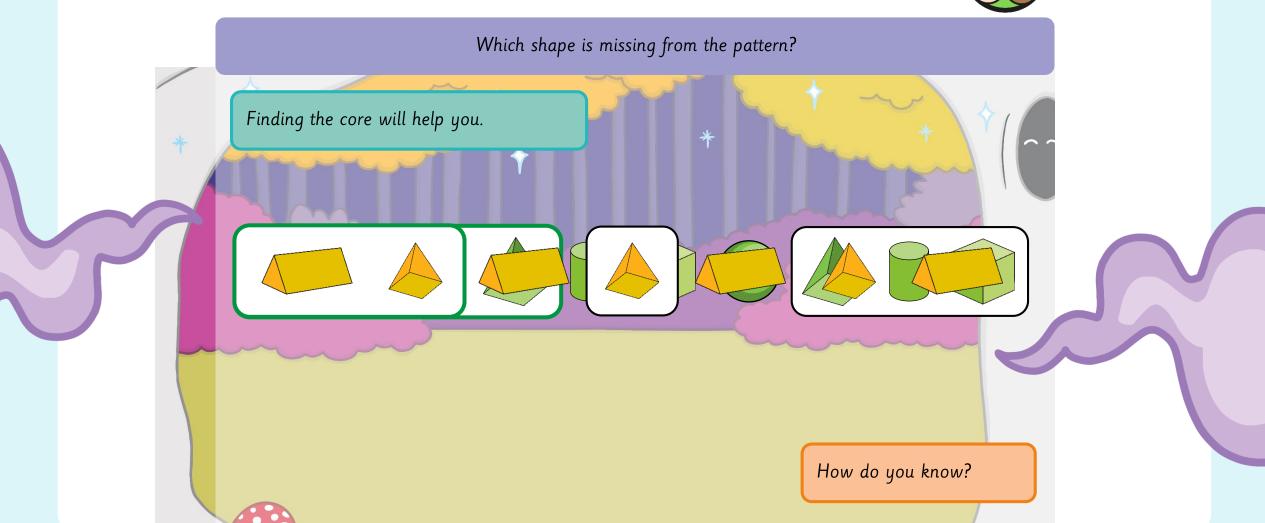




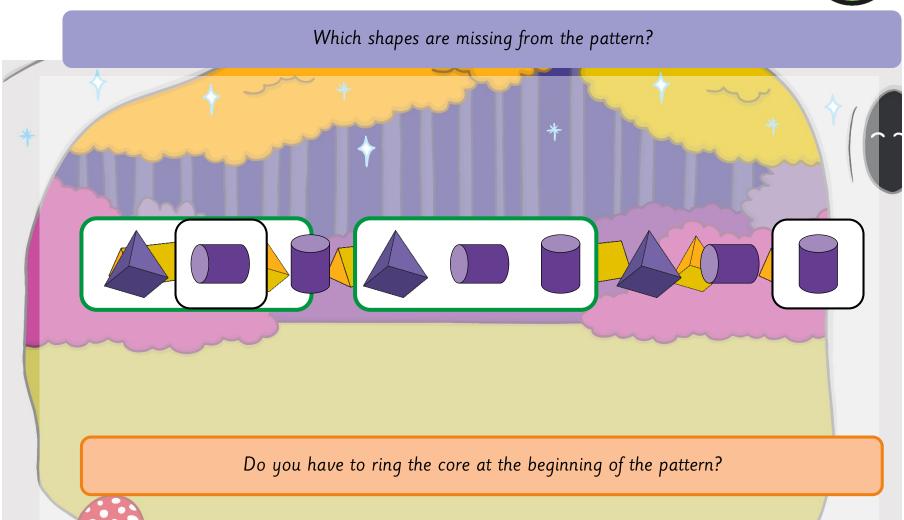




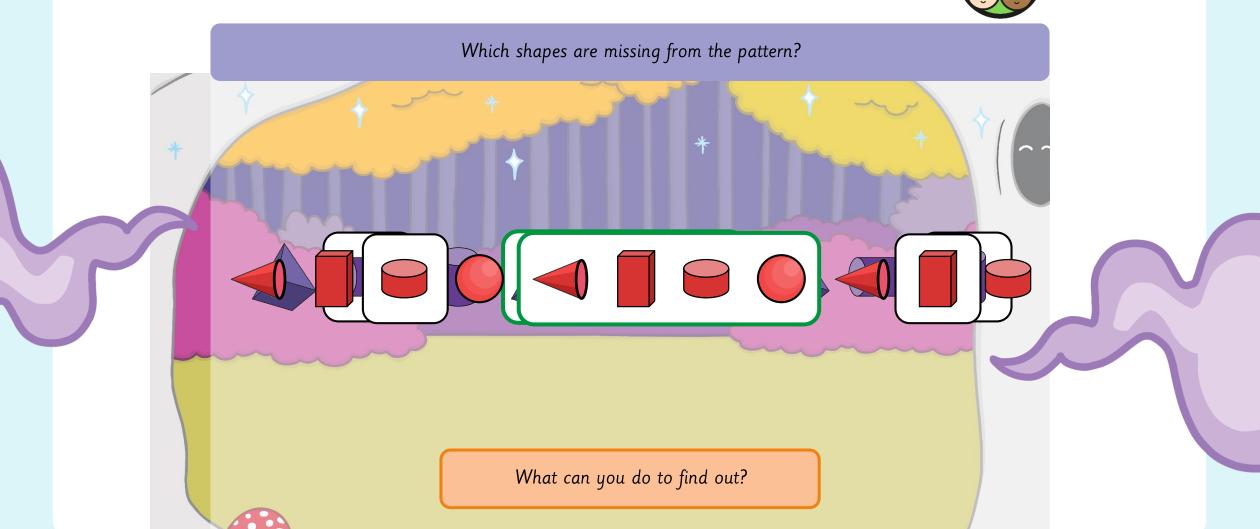




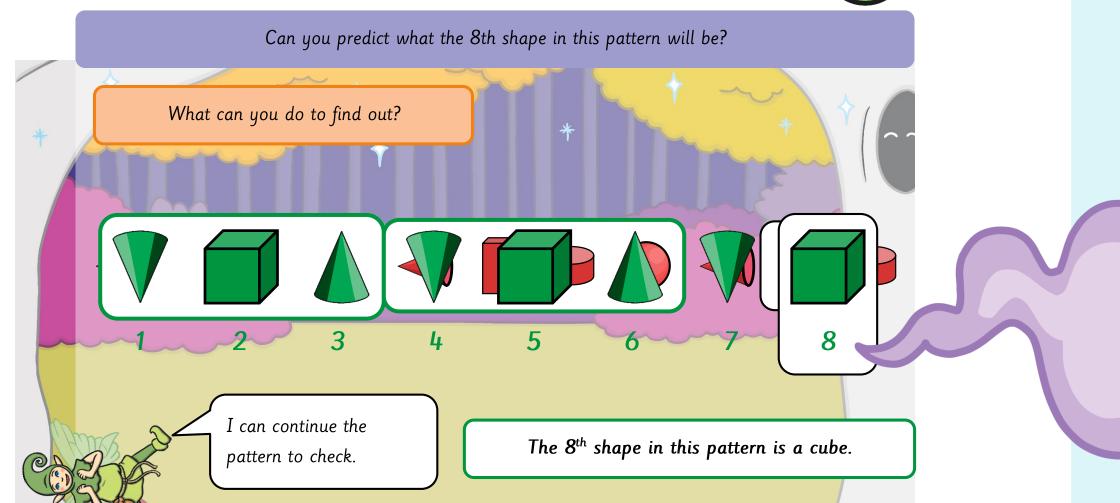








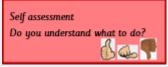


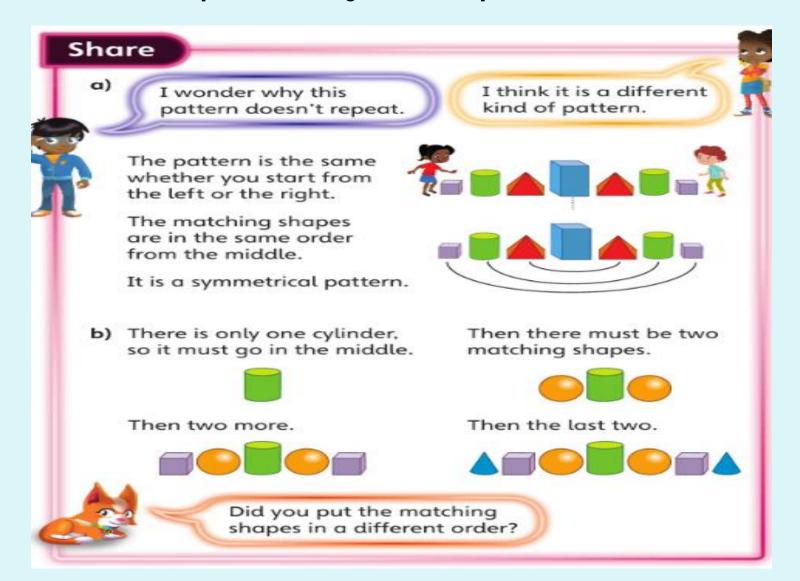


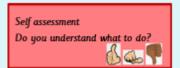
- a) Describe the pattern of3 D shapes.
- b) Create the same sort of pattern using these shapes.

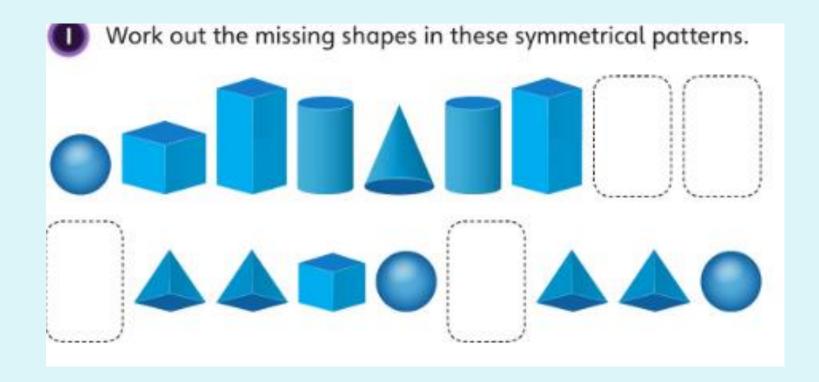


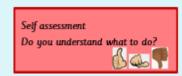


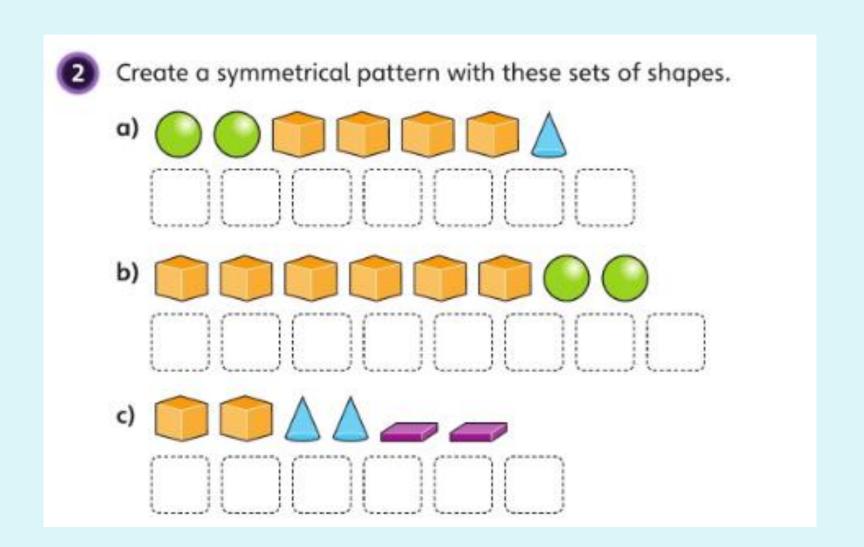


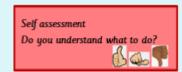




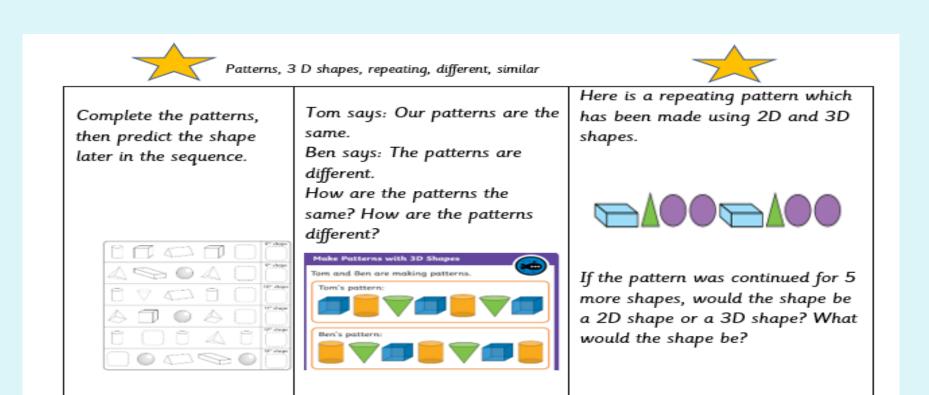






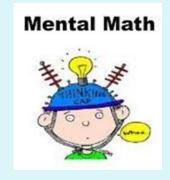


Complete the tasks in your books.





## **Mental Maths** 19.03.2024



### Share these amounts equally:

$$10 \div 5 =$$
 \_\_\_\_  $14 \div 2 =$  \_\_\_  $16 \div 4 =$  \_\_\_\_



LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

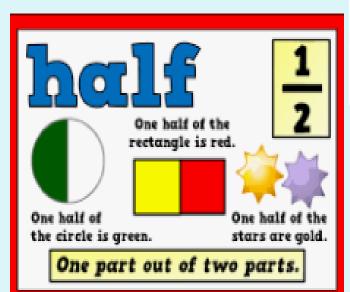


### Steps to Success:

I know what whole means.

I can describe the equal parts.

I can find a quarter 1/4, a half 1/2







**@** 

One Quarter



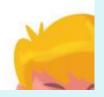
half  $(\frac{1}{2})$ quarter  $(\frac{1}{4})$  whole

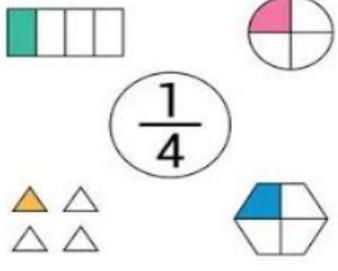
third  $(\frac{1}{3})$ equivalent

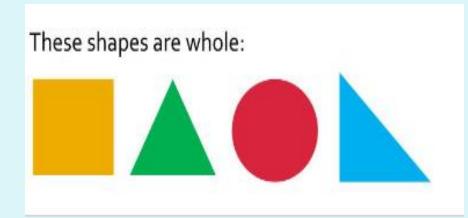
> equal part numerator

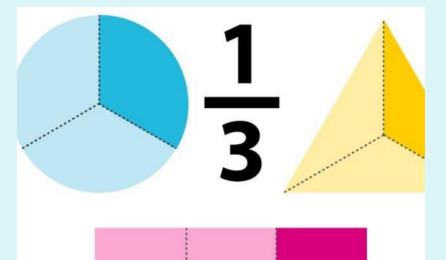
denominator fraction bar

non-unit fraction unit fraction









# LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

Today you are going to learn about the whole and equal parts.

TP: What do you remember about the whole?

What do you remember about the parts?

Here is the United Kingdom.

There are four countries in the United Kingdom.

The UK is the whole.

Wales is a part.

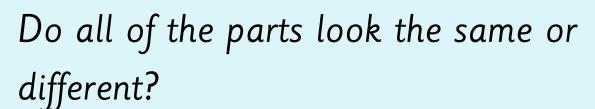


LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

TP: Is this the whole cake?



TP: Is this the whole cake?





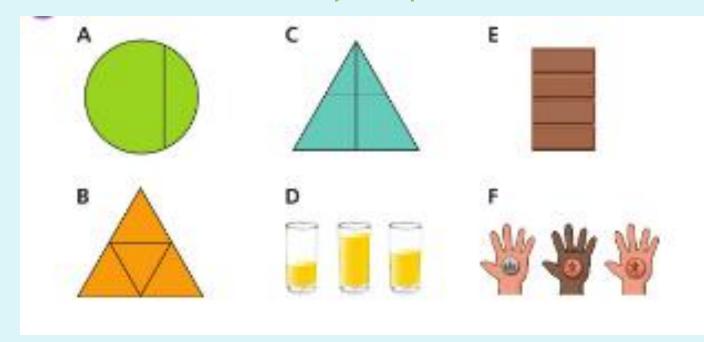
Are the parts of the cake equal?

What makes them equal?

How many parts do you see?

# LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

TP: Which show equal parts?



Do all of the parts look the same or different?
What makes them equal?
How many parts has each been split into?
Have all of the shapes been split?

Sentence starter:

----- show equal parts.

# LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

Now I am going to show you the square.

We are going to find equal parts.

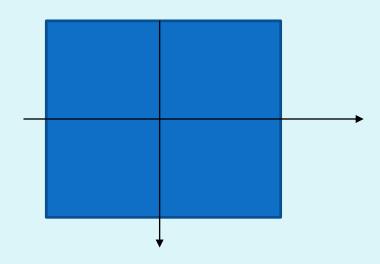
Is this whole square?

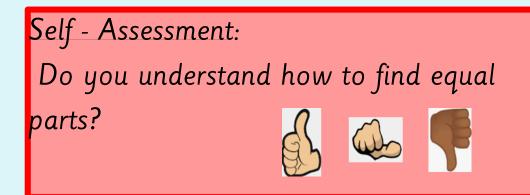
How many equal parts does it have?

Let's try to fold it.

The square has 4 equal parts.

Can you find more equal parts?





# LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

Task 1

Now you are going to fold shapes and find equal parts.

- Fold shapes. (square, rectangle, triangle)
- Are they equal parts?



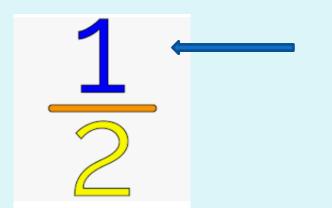
#### LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

TALK THINK!

Now you are going to find half ½ of the whole.

TP: What do you remember about the whole and equal parts?

TP - What does this symbol mean?



1/2 means 1 of 2 equal parts.

LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

TP: What does ½ mean?

Which diagrams show halves?

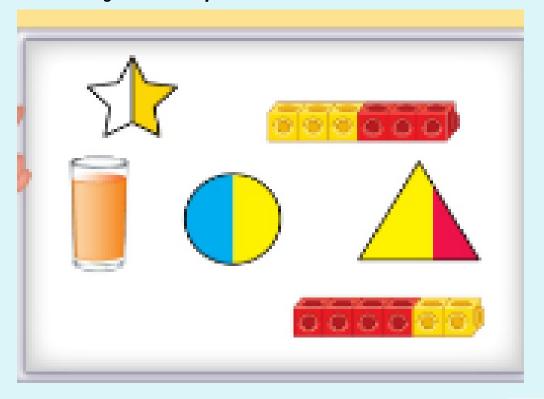
Which ones do not show halves?

½ means 1 of 2 equal parts.

We read 1/2 as a half.

It means we share equally between 2.



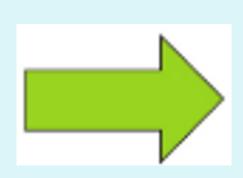


I know that sharing equally between 2 is like dividing by 2.



#### LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

Task 2 Let's work together and divide each shape into two equal parts.







#### Self - Assessment:

Do you understand how to find half 1/2 of the whole?





# LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

Task 2

Now you are going to fold shapes and 1/2 parts and shade 1/2.

Fold shapes. (square, rectangle, triangle)

Shade 1/2

Are they equal parts?



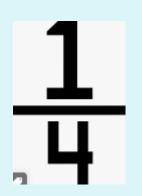
#### LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

TALK THINK!

Now we are going to find a quarter 1/4 of the whole.

TP: What do you remember about the whole and equal parts? What is  $\frac{1}{2}$ ?

TP - What does this symbol mean?





1/4 means 1 of 4 equal parts.

LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

At lunchtime three children compare their sandwiches.

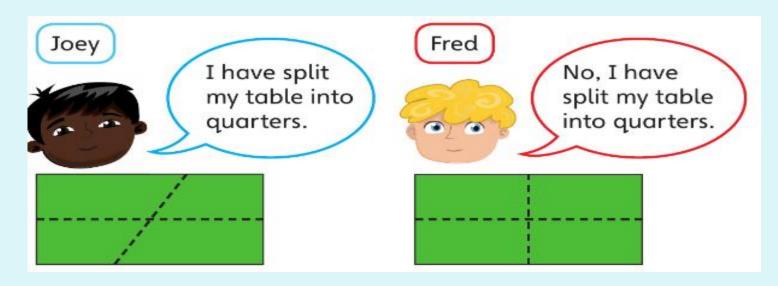
Which children's sandwiches have been cut into quarters? How do you know?



Sentence starter:

-----sandwiches have been cut into quarters because ------

#### LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?



Who is correct?

How do you know?

Sentence starter:

-----is correct because ------is



# LQ: Can I recognise a quarter ¼, a half ½ and a whole of the shape?

Task 3

Now you are going to fold shapes, find 1/4 parts and shade 1/4.

- Fold shapes. (square, rectangle)
- Shade 1/4.
- Are they equal parts?

# Challenge:

Shade ½ and ¼ in the sheets on your table.



#### Mental maths



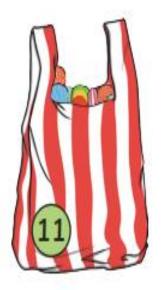
5 children want to buy sweets from the shop.

They want to share them equally.

Which bag should they buy? Explain why.





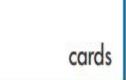


Ben has 40 cards.

He shares them equally between 4 party bags.



How many cards does he put in each bag?





LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

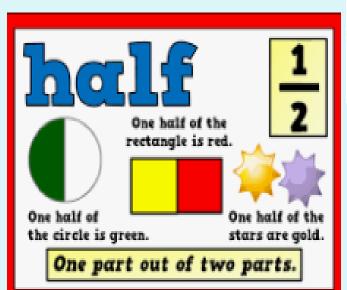


# Steps to Success:

I know what whole means.

I can describe the equal parts.

I can find a quarter 1/4, a half 1/2







One Quarter



half  $(\frac{1}{2})$ quarter  $(\frac{1}{4})$  whole

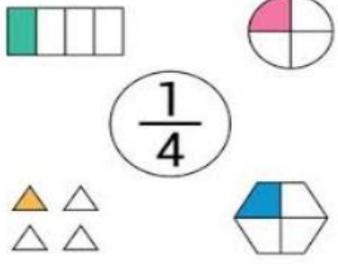
third  $(\frac{1}{3})$ equivalent

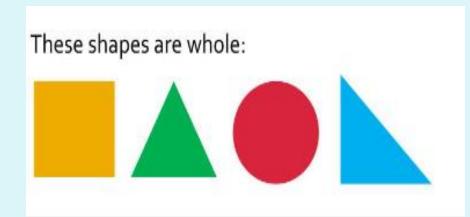
> equal part numerator

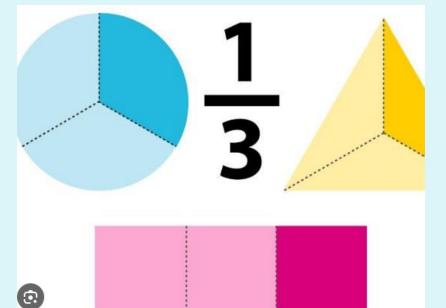
denominator fraction bar

non-unit fraction unit fraction









LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

# Let's recap:

TP: What does ½ mean?

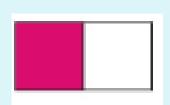
Which diagrams show halves?

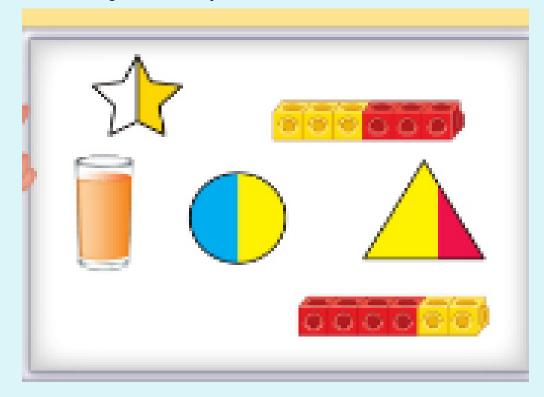
Which ones do not show halves?

1/2 means 1 of 2 equal parts.

We read 1/2 as a half.

It means we share equally between 2.





I know that sharing equally between 2 is like dividing by 2.



LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

1/2 means 1 of 2 equal parts.

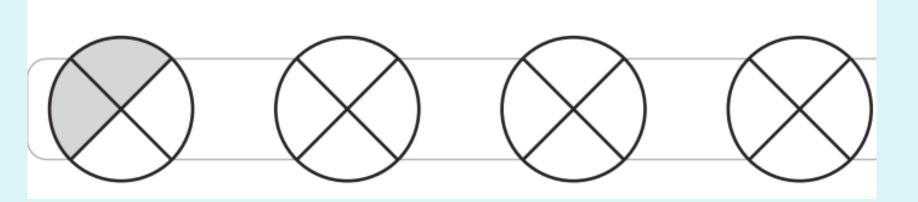
We read 1/2 as a half.

It means we share equally between 2.

Let's shade together.



I know that sharing equally between 2 is like dividing by 2.





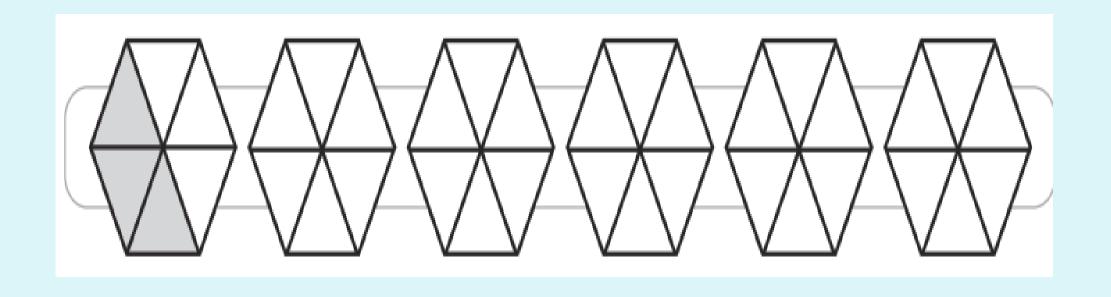
LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

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We read 1/2 as a half.

It means we share equally between 2.

Let's shade together.





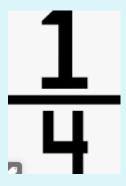
# LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?



# Let's recap:

TP: What do you remember about the whole and equal parts? What is  $\frac{1}{2}$ ?

TP: - What does this symbol mean?







1/4 means 1 of 4 equal parts.

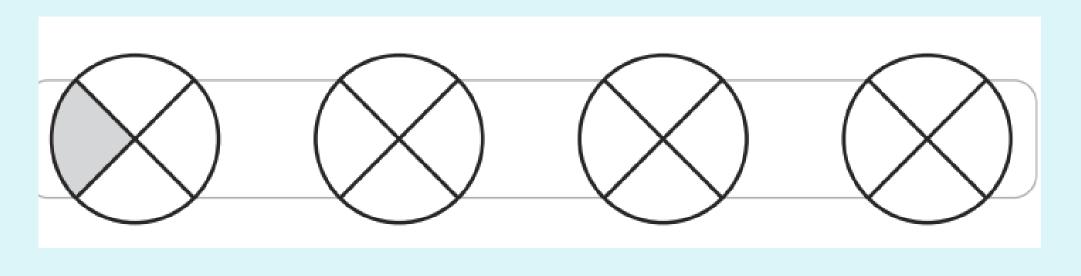
LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

1/4 means 1 of 4 equal parts.

We read 1/4 as a quarter.

It means we share equally between 4.

Let's shade together.





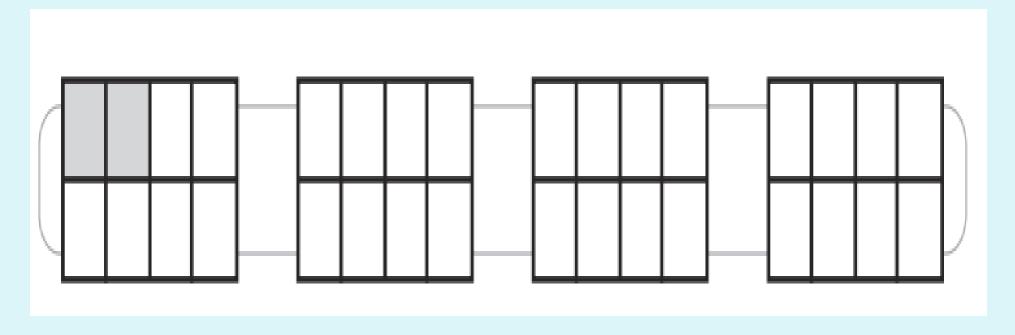
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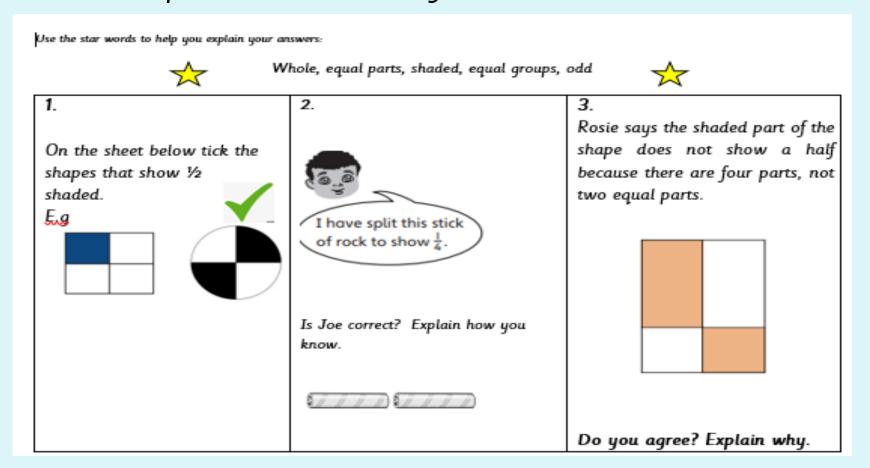
Let's shade together.

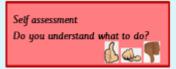




#### LQ: Can I recognise a quarter 1/4, a half 1/2 and a whole of the shape?

# Complete the tasks in your books.







# 21.02.2023

# LQ: Can I find half of a quantity?

# Steps to Success:

I know what half means.

I can find a half of an amount.

I can record half using my own strategy.

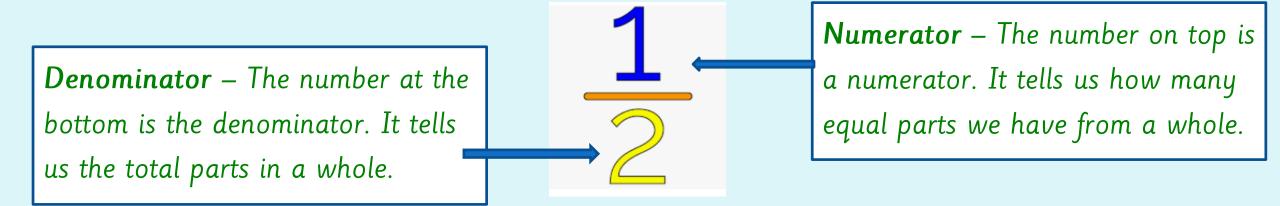


#### LQ: Can I find half of a quantity?



Today you are going to learn about fractions. Fraction means when an amount or shape is divided into equal parts from a whole.

TP - What does this symbol mean?



Today you going to find half of a quantity.

# LQ: Can I find half of a quantity?



TP- How many players are there?

What strategy could you use to split these players into two teams?

If another player joins the group, how many players are there now?

Will the groups be equal or unequal? Explain how do you know?

#### LQ: Can I find half of a quantity?



There are 12 players. They are split into two teams. What strategy can you use to work out half?

This can be recorded as  $12 \div 2 = 6$ When we work with fraction we use this method instead:  $\frac{1}{2}$  of 12 = 6.



Can 13 players be split into two equal groups? Why/Why not?

28.04.22

LQ: Can I find half of a quantity?

Let's recap finding half.

What symbol do we use to record half for quantity?

1 2

What is the number on top called?

**Numerator** – The number on top is a numerator. It tells us how many equal parts we have from a whole.

What is the number on the bottom called?

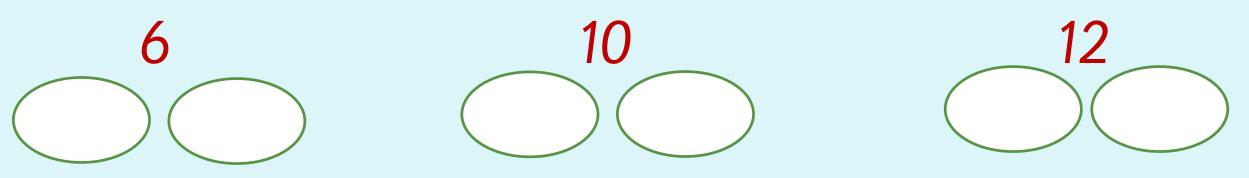
**Denominator** – The number at the bottom is the denominator. It tells us the total parts in a whole.

To record a half of 12 as a fraction we write it like this:

$$\frac{1}{2}$$
 of  $12 = 6$ 

#### LQ: Can I find half of a quantity?

Let's find half for these quantities by sharing them out into two equal groups. Record as a fraction sentence.



Use the cubes to help you divide the amount into two equal groups.

Self assessment

Do you understand how to find half of a quantity?

# LQ: Can I find half of a quantity?

# Challenge

$$\frac{1}{2} \text{ of } 4 = \boxed{\frac{1}{2} \text{ of } 40 = \boxed{\frac{1}{2} \text{ of } 60 = \boxed{\frac{1}{2} \text{ of } 80 =$$

LQ: Can I find half of a quantity?

Self assessment

Do you understand how to record half for a fraction?

Complete the tasks in your book.

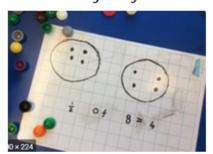
#### Fluency

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Find half for the following amounts by sharing them into equal groups.

8 10 14 18 22 2<sup>1</sup>

Record using the fraction.



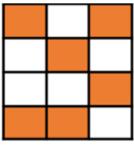
 $\frac{1}{2}$  of 8 =

#### Most

#### Reasoning

2.

Dora is asked to shade half of her shape. This is what she shades.



Is she correct? Explain why.

Dora is \_\_\_\_\_ because...

#### Problem Solving

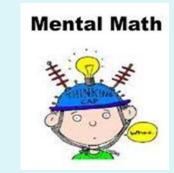
3.

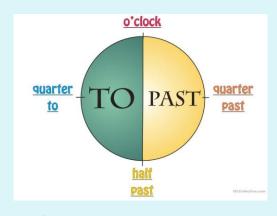
Annie has some gummy bears. She circles half of them.



How many gummy bears did she have at the start?

### Mental Maths





#### Recap

1 minute = 60 seconds

1 hour = 60 minutes

1 day = 24 hours

Half of 1 minute = 30 seconds

Half of 1 hour = 30 minutes

Half of 1 day = 12 hours

Read and write the times for half past.















LQ: Can I find quarters of a quantity?



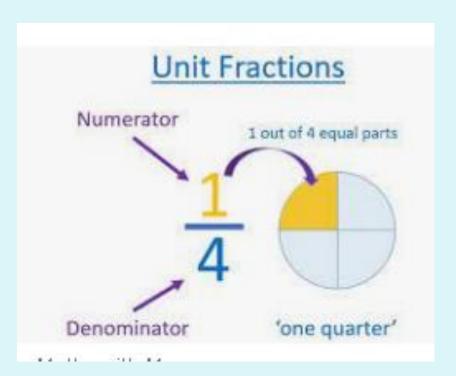
# Steps to Success:

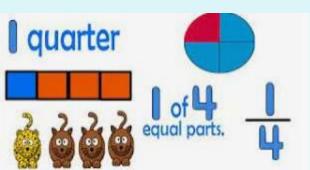
I know what a quarter is.

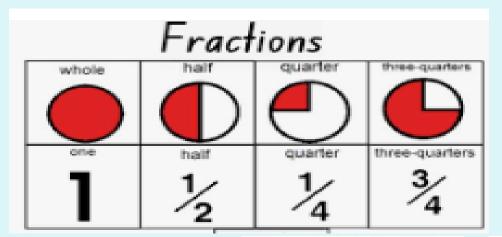
I can find quarters for given amount.

I can record quarters using an efficient strategy.

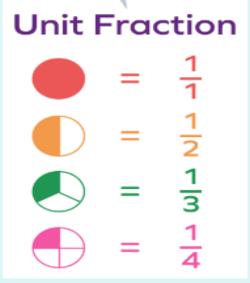






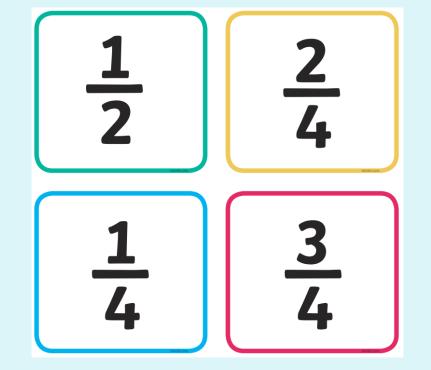




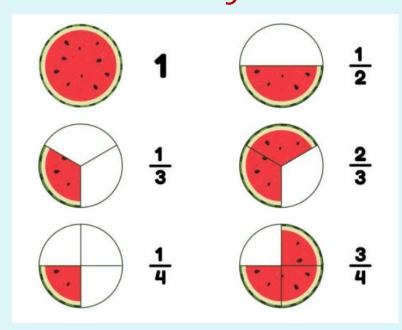




What does fraction mean? Equal parts of a whole.



What do these symbols mean?



Self assessment

Do you understand what fraction means?

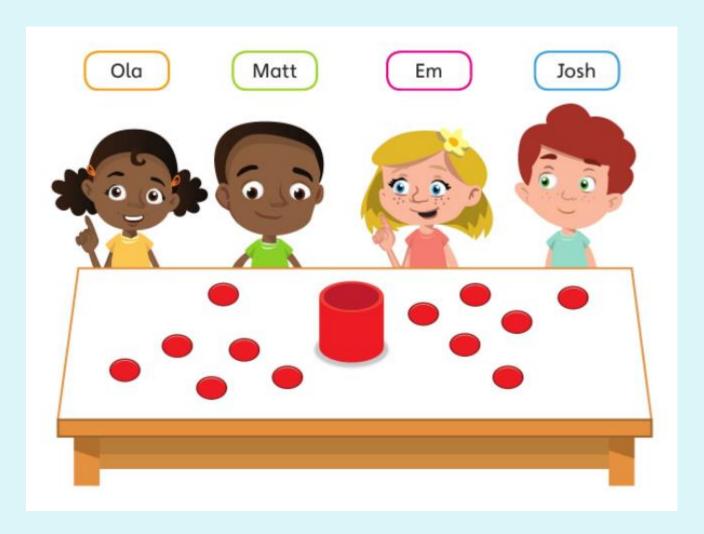






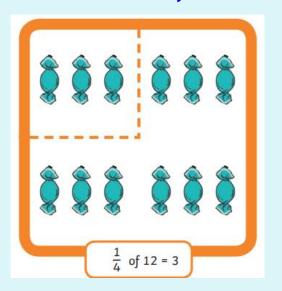
How can 12 be shared equally into 4 equal groups?

There are 12 counters.



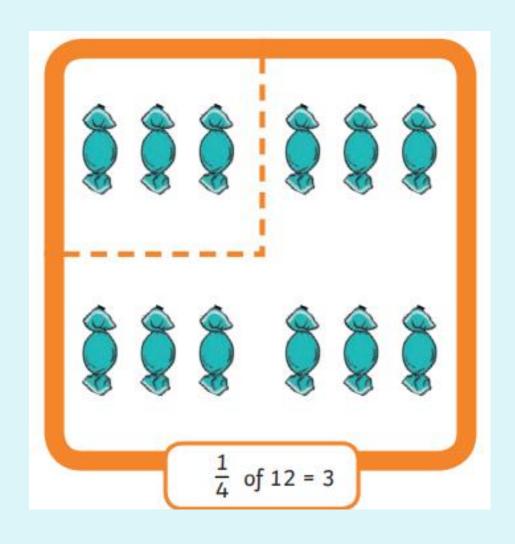
12 is shared between 4 people.

There are 4 equal parts when we split things or amounts into quarters.



Each person gets 3. So  $\frac{1}{4}$  of  $\frac{12}{3}$ 





What will 2/4 be? How do you know? Prove it

TP: What do you notice about 2/4?

(It is the same as ½)

What will 3/4 be? How do you know? Prove it

Self assessment

Do you understand what quarters are?



4 8 16

Let's find ¼ and 2/4 (1/2) for these amounts.

Remember to share them out into 4 equal parts

Self assessment

Do you understand how to record quarters

for fraction?

# Complete the tasks in your book.

