Our Maths Learning Journey

To find the duration of time using an analogue clock in 30- and 60-minute intervals

Key vocabulary:

Half

Quarter

Third

Equivalent

Equal part

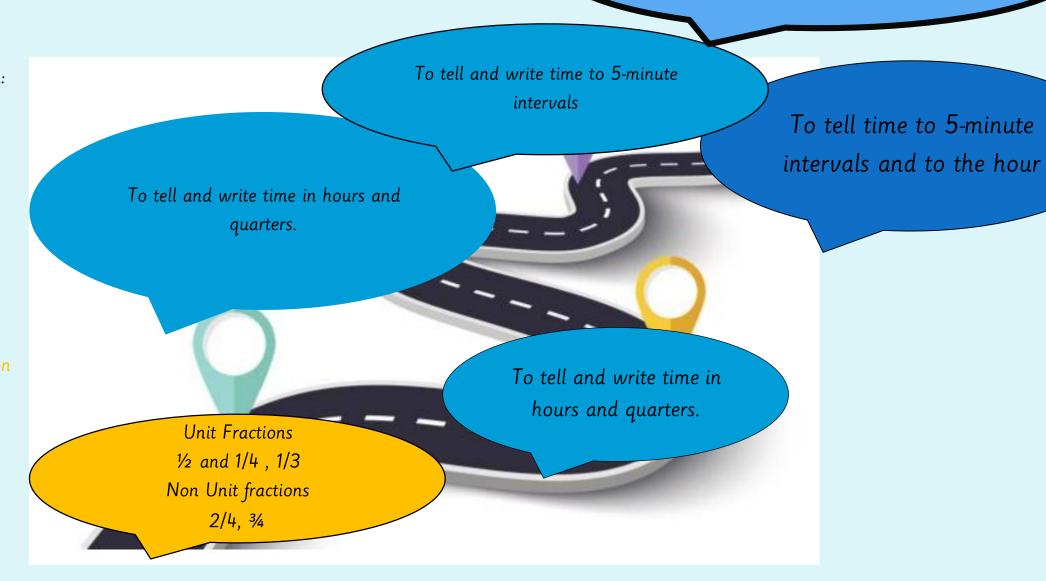
Numerator

Denominator

Fraction

Unit fraction

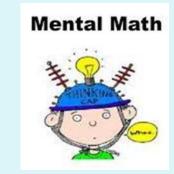
Non-unit fraction

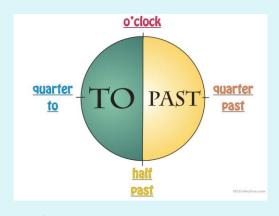


Challenge



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 halves and quarters of a quantity?



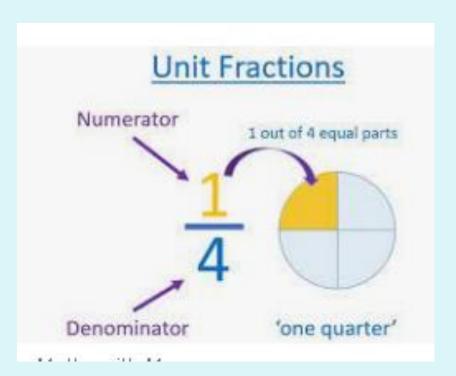
Steps to Success:

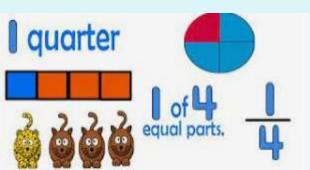
I know what a quarter is.

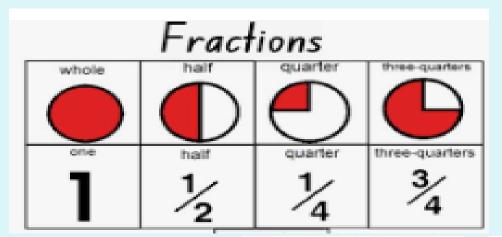
I can find quarters for given amount.

I can record quarters using an efficient strategy.

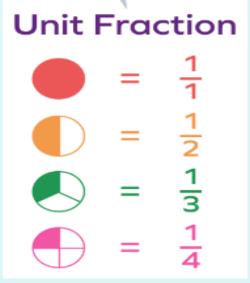






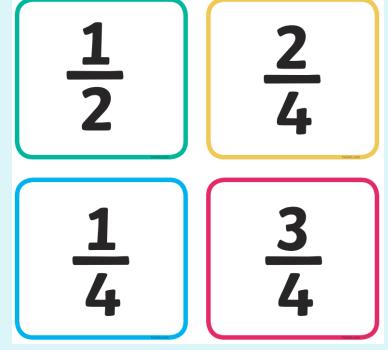




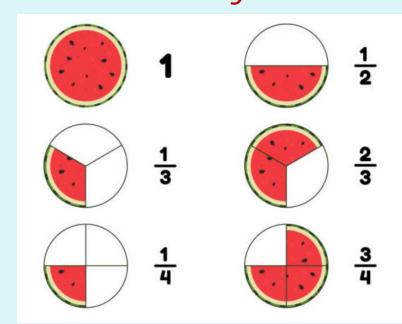




What does fraction mean? Equal parts of a whole.



What do these symbols mean?



Self assessment

Do you understand what fraction means?







Finding Half (1/2)

To find half of a number, you need to divide the number by two.



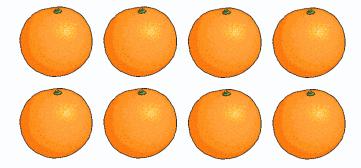
$$6 \div 2 = 3$$
 so $\frac{1}{2}$ of $6 = 3$

Finding Half (1/2)

Can you find ½?

$$\frac{1}{2}$$
 of $8 = 4$

$$8 \div 2 = 4$$



So half of 8 is 4

Finding Half (1/2)

Amina has 4 pencils, she wants to put half of them in her pencil case. How many pencils will she put in her pencil case?

$$\frac{1}{2}$$
 of $4 = 2$ $4 \div 2 = 2$

So half of 4 is 2

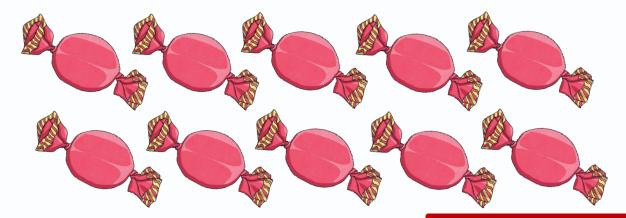
She will put 2 pencils in her pencil case.

Finding Half (1/2)

Liam has ten sweets, he gives half to his sister. How many sweets will they each get?

$$\frac{1}{2}$$
 of $10 = 5$

$$10 \div 2 = 5$$



So half of 10 is 5

They will get 5 sweets each.

Self assessment

Do you understand how to find half of a quantity?

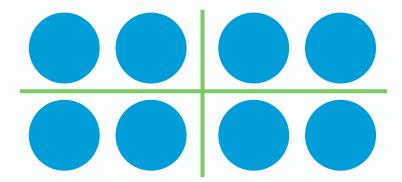






Finding a Quarter (¾)

To find a quarter of a number, you need to divide the number by four.

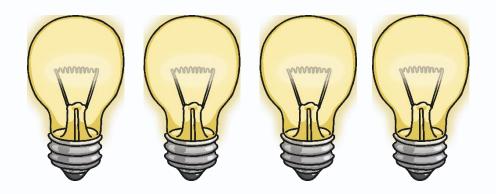


$$8 \div 4 = 2$$
 so $\frac{1}{4}$ of $8 = 2$

Finding a Quarter (¾)

Can you find 1/4?

$$\frac{1}{4}$$
 of $4 = 1$ $4 \div 4 =$



So a quarter of 4 is 1



Finding a Quarter (¾)

A cat has 12 fish. It shares them between her four kittens. How many fish will each kitten get.

$$\frac{1}{4}$$
 of $12 = 3$

$$12 \div 4 = 3$$



So a quarter of 12 is 3

They will get 3 fish each.

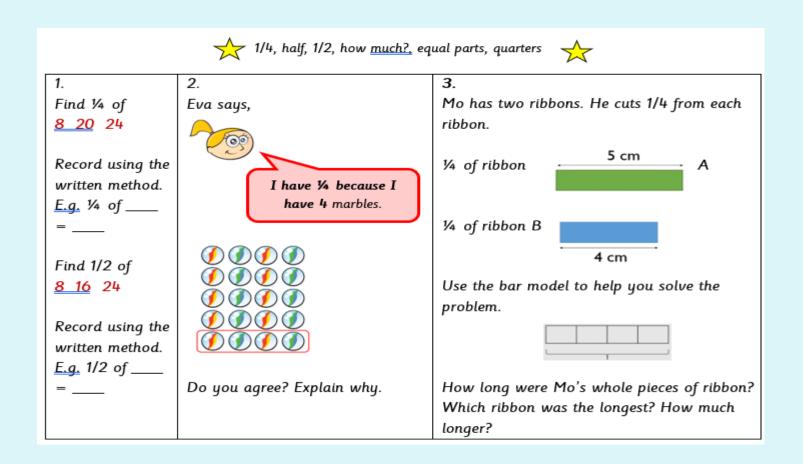
Self assessment

Do you understand how to find a quarter of a quantity?

Self assessment

Do you understand how to record halves and quarters for fraction?

Complete the tasks in your book.



Mental Maths

2 ÷ 2 =	4 ÷ 2 =	50 ÷ 5 =	30 ÷ 5 =
12 ÷ 2 =	55 ÷ 5 =	90 ÷ 10 =	90 ÷ 10 =
20 ÷ 10 =	18 ÷ 2 =	80 ÷ 5 =	15 ÷ 5 =
42 ÷ 2 =	6 ÷ 2 =	70 ÷ 5 =	5 ÷ 5 =



LQ: Can I find thirds of a quantity?



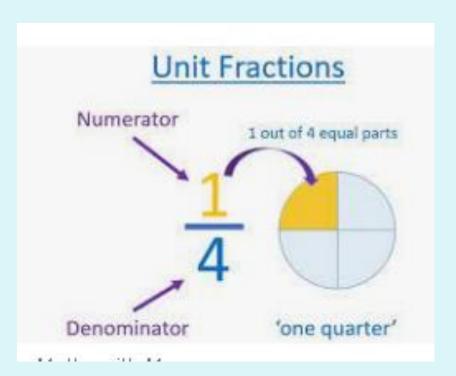
Steps to Success:

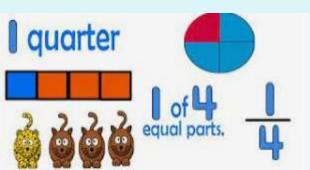
I know what a third is.

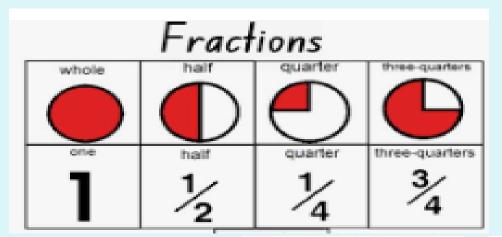
I can find third for given amount.

I can record thirds using an efficient strategy.

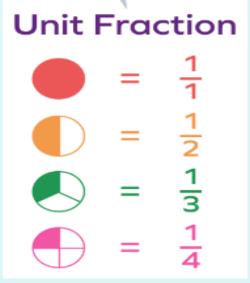






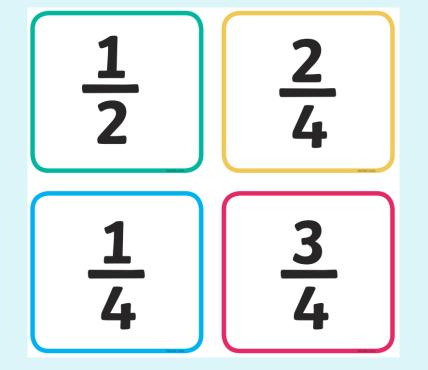




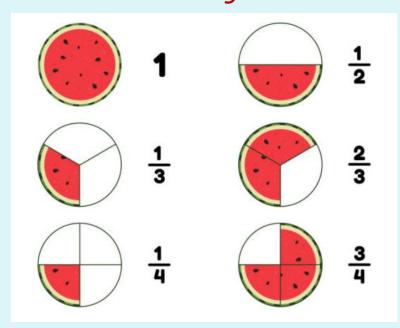




What does fraction mean? Equal parts of a whole



What do these symbols mean?



Self assessment

Do you understand what fraction means?







Finding One Third (1/3)

We divide by 2 to find half $(\frac{1}{2})$, and 4 to find one quarter $(\frac{1}{4})$.

What do you think we need to divide by to find one third? Have a look at the one third fraction...



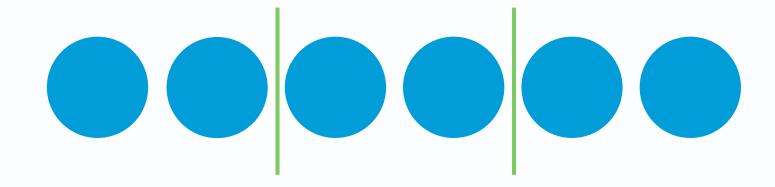
1/3

You need to divide by 3 to find one third.



Finding One Third (1/3)

To find one third of a number, you need to divide the number by three.



$$6 \div 3 = 2$$
 so $\frac{1}{3}$ of $6 = 2$

Finding One Third (1/3)

Can you find ¹⁄₃?

3 of
$$9 = 3$$
 $9 \div 3 = 3$

So one third of 9 is 3

Finding One Third (1/3)

There are 12 dog biscuits in a packet. Daniel shares them between his three dogs. How many biscuits will each dog get?

$$\frac{1}{3}$$
 of $12 = 4$ $12 \div 3 = 4$

So one third of 12 is 4

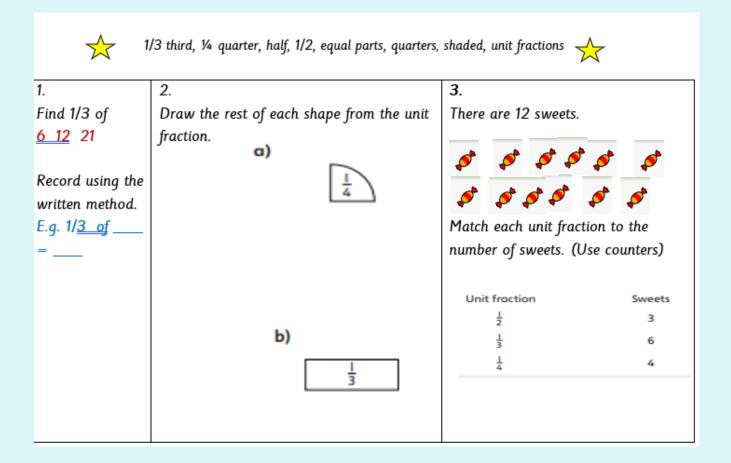
They will get 4 biscuits each.

Self assessment

Do you understand how to find third of a quantity?

LQ: Can I find thirds of a quantity?

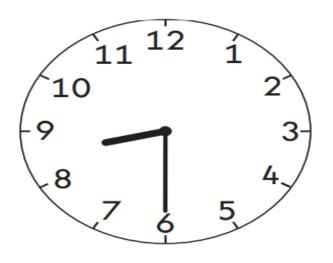
Complete the tasks in your book.



Self assessment

Do you understand how to record thirds for fraction?

Mental Maths



What time does the clock show?

Tick the correct box.

twenty to 6

half past 9

half past 8

quarter to 6

9 × 5 =	2 × 6 =	
10 × 5 =	4 × 10 =	
11 × 10 =	10 × 6 =	
7 × 10 =	12 × 10 =	
5 × 5 =	9 × 2 =	
2 × 8 =	7 × 2 =	





Steps to Success:

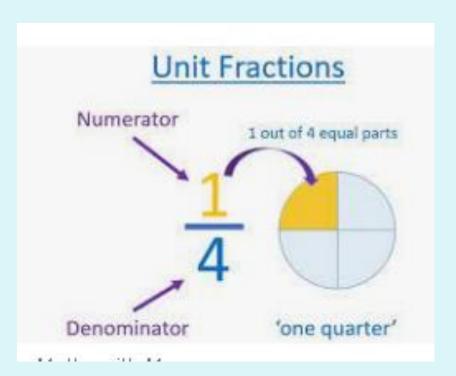
I know what a unit fraction is.

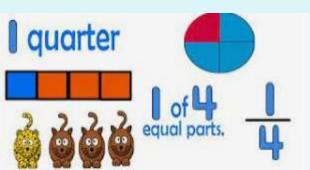
I can find a unit fraction.

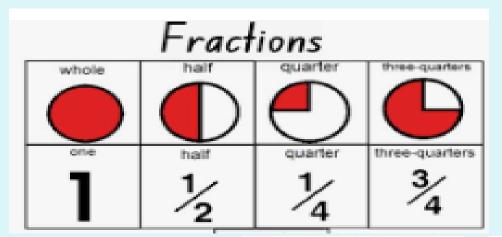
I can record a unit fraction using an efficient strategy.



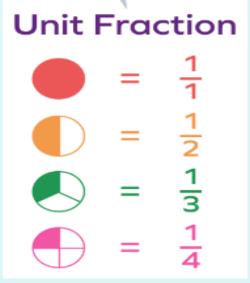






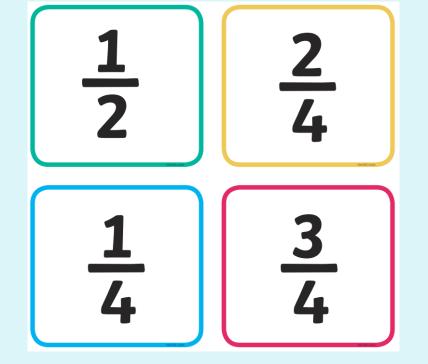




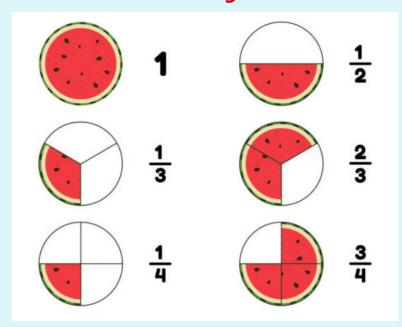




What does fraction mean? Equal parts of a whole



What do these symbols mean?



Self assessment

Do you understand what fraction means?







Today we are going to learn about unit fractions.

TP: What fraction of stripe?



- What fraction of stripe?
- What is the same and what is different about
- the flags?

Sentence starter:

I know that each stripe is part.

I know that the fraction of each stripe isbecause



This flag has 2 equal parts altogether. Each stripe is 1 part. Each strip is ½ of the flag.



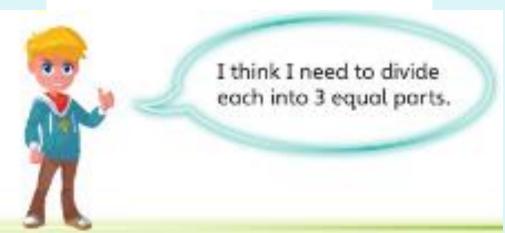
This flag has 3 equal parts altogether. Each stripe is 1 part. Each stripe is 1/3 of the flag.

We call the fraction 1/3 one third.

LQ: Can I recognise unit fractions?

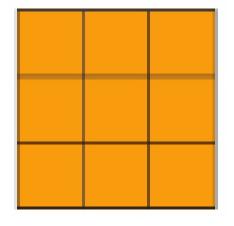
Let's practice finding 1/3.



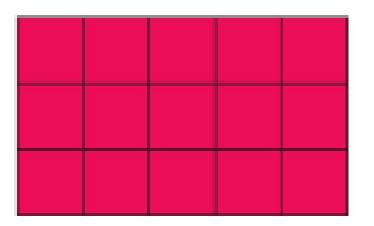




$$\frac{1}{3}$$
 of 6 =



$$\frac{1}{3}$$
 of $q =$



$$\frac{1}{3}$$
 of 15 =

LQ: Can I recognise unit fractions?

Each flag is split into equal parts.

The number of equal parts is different.

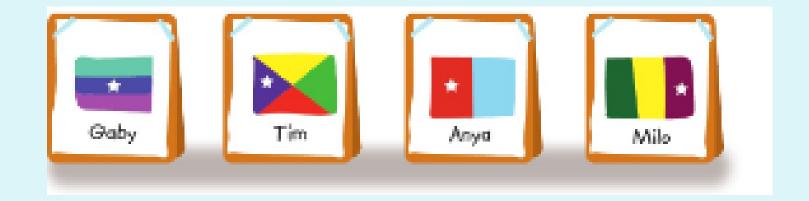
The flag has 4 parts 2 parts 3 parts Each stripe is $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{3}$

The numerator of each fraction is 1.

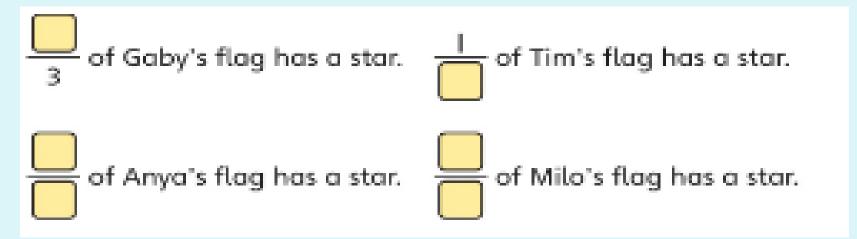
The number of equal parts is the denominator of the fraction.

A fraction where the numerator is I is called a unit fraction.

Class 2 have been making their own flags.

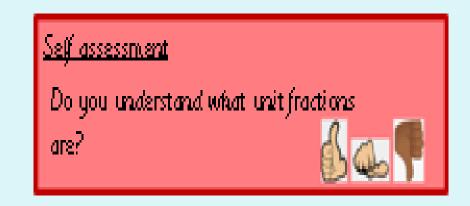


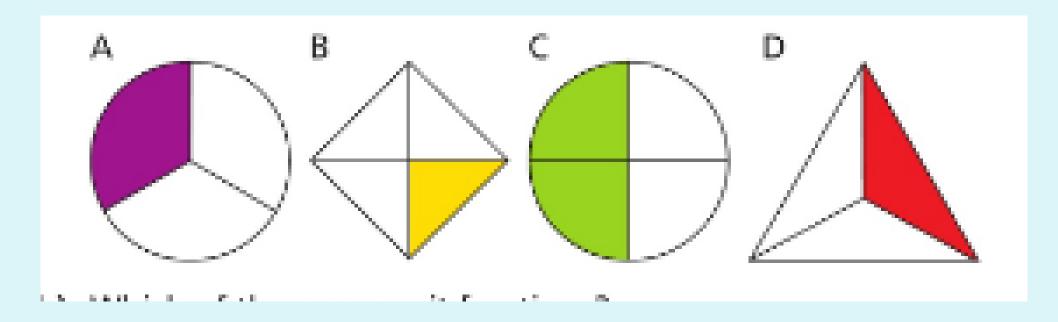
What fraction of each flag has a star?



LQ: Can I recognise unit fractions?

What fraction of each shape is shaded?

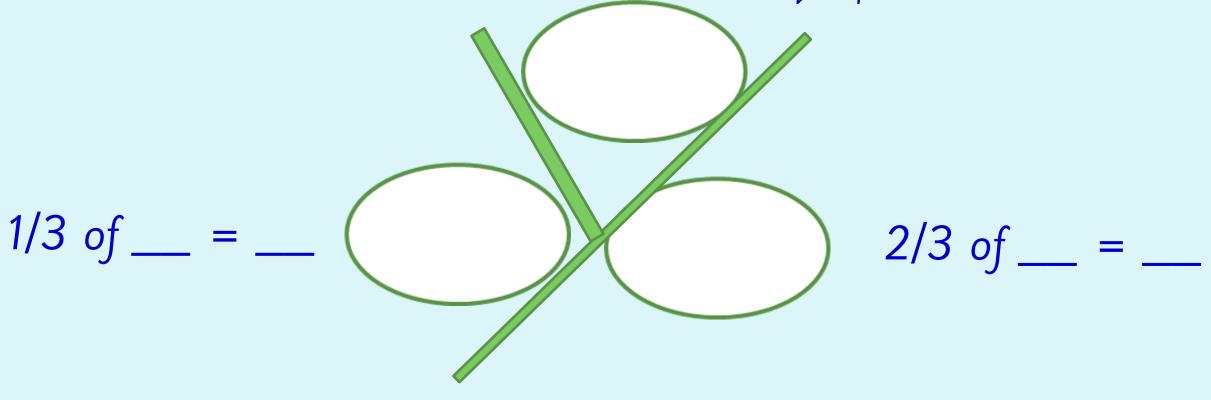




Which of these are unit fractions? Explain how you know.

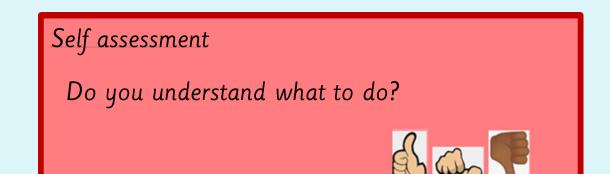
Let's find 1/3 for these amounts.

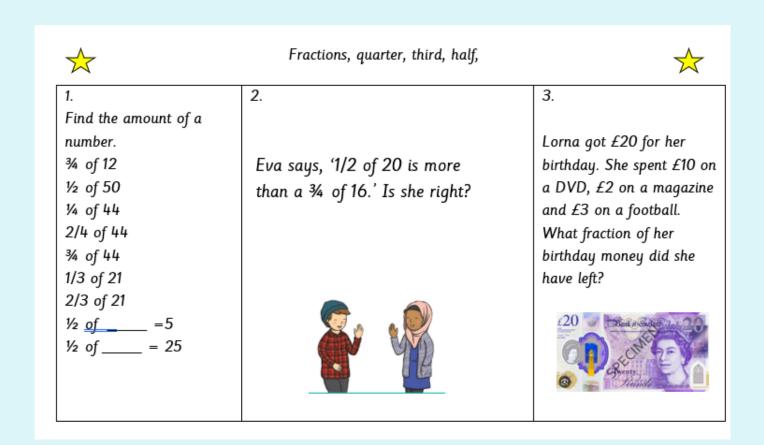
Remember to share them out into 3 equal parts

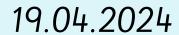


LQ: Can I recognise unit fractions?

Complete the tasks in your book.







Mental Maths

Mental Math

Use the mini clocks to make these times.

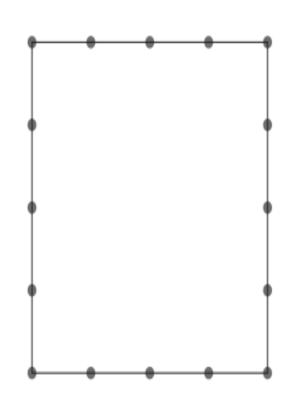


3 o'clock 5 o'clock 1 o'clock 7 o'clock half past 3, half past 5, half past 1, half past 7, half past 8

Mental Maths

Mental Math

Draw **two lines** to divide the square into **quarters**.



10 × 7 =	12 × 5 =
10 × 3 =	10 × 8 =
10 × 12 =	4 × 10 =
5 × 0 =	10 × 1 =
12 × 10 =	1 × 5 =





LQ: Can I recognise non unit fractions?

Steps to Success:

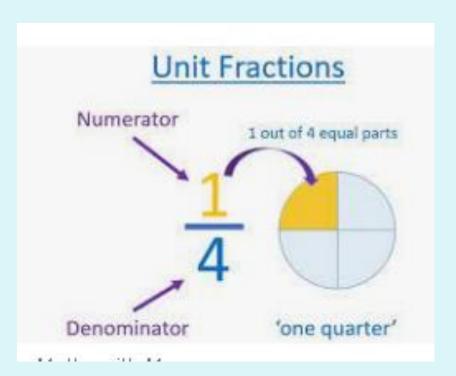
I know what a non unit fraction is.

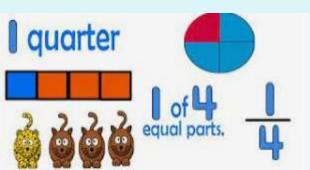
I can find a non unit fraction.

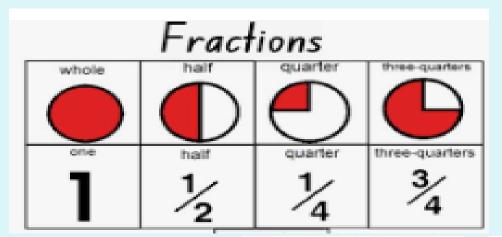
I can record a non unit fraction using an efficient strategy.



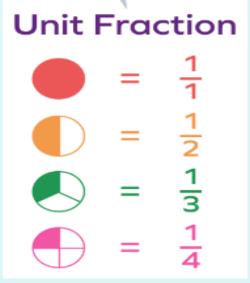












LQ: Can I recognise non unit fractions?



What does fraction mean?

Equal parts of a whole

What is a unit fraction?

 $\begin{bmatrix}
 \frac{1}{2} \\
 \frac{2}{4}
 \end{bmatrix}$ $\begin{bmatrix}
 \frac{3}{4} \\
 4
 \end{bmatrix}$

A fraction where the numerator is I is called a unit fraction.

Self assessment

fraction?

Do you understand what fraction means?

Do you understand what is a unit







LQ: Can I recognise non unit fractions?

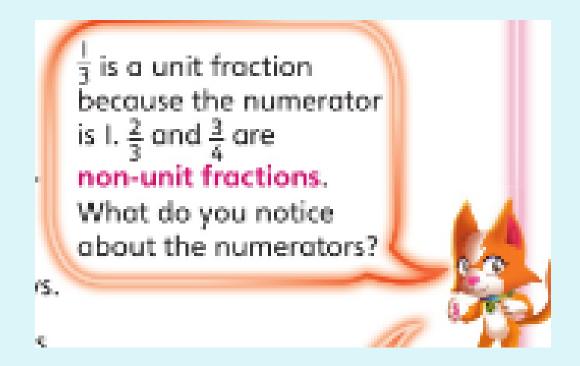


TP: What fraction of the children are boys?

What fraction of the children are girls?

LQ: Can I recognise non unit fractions?





There are 3 children. The denominator is 3.

1 of the children is a boy.

The numerator is 1.

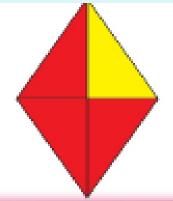
1/3 of the children are boys.

2 of the children are girls.

The numerator is 2.

2/3 of the children are girls.

LQ: Can I recognise non unit fractions?



TP: How many equal parts?
How many red equal parts?
How many yellow equal parts?
Can you write a fraction?
Is this a unit or non-unit fraction?

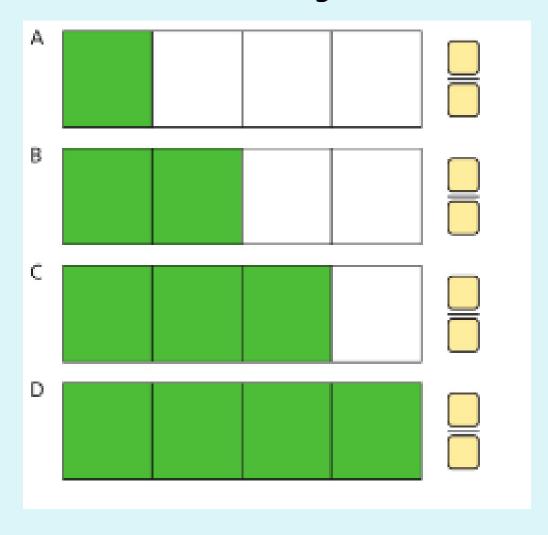
3/4 of the kite is red.

The denominator is 4.

So there are 4 equal parts.

The numerator is 3. So 3 parts are red.

LQ: Can I recognise non unit fractions?



TP: What fraction of each shape is shaded?

Which diagram has the whole shaded? What fraction is non unit fraction?

LQ: Can I recognise non unit fractions?

Complete the tasks in your book.

Self assessment

Do you understand what to do?



r. Find amounts.

% of 12 = 1/3 of 15 = ¼ of 8 = 2/4 of 12 = ¼ of 40 =

 $\frac{1}{2}$ of 50 =

Draw a circle.
Divide into
equal parts.
Share amounts.
Record using the
written method.
E.g. 2/3 of ____

2.

a. Which kites show ¾ shaded?

b. Which kites have a unit fraction shaded?

c. Which kites have non-unit fraction shaded?



- a. show ¾ shaded.
- b. have a unit fraction shaded.
- c. have non-unit fraction shaded.

lev is foldina

Alex is folding two identical paper strips.

I think $\frac{1}{4}$ of the strip will be bigger than $\frac{1}{2}$ of the strip because 4 is bigger than 2

Use paper strips to prove Alex is incorrect. Stick them in a book.

I agree/ disagree because