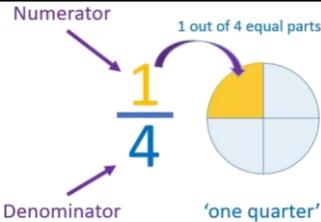


Key concepts and questions

What are unit and non-unit fractions?

Unit fractions have a numerator of 1  
Non-unit fractions have a numerator greater than 1.



How do you find a fraction of a shape or set of objects?

There are 6 equal parts so the denominator is 6.

1 part is red,  $\frac{1}{6}$  is red.

3 parts are yellow,  $\frac{3}{6}$  are yellow.

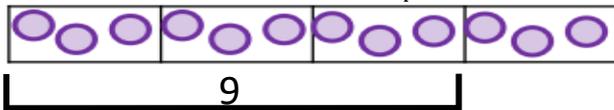
2 parts are blue,  $\frac{2}{6}$  are blue.



How do you find a fraction of an amount?

Use a bar model to split the whole into equal parts of the fraction and then share the amount between the equal parts. Multiply one part by the numerator. E.g.  $12 \div 4 = 3$     $3 \times 3 = 9$     $\frac{3}{4}$  of 12 = 9

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



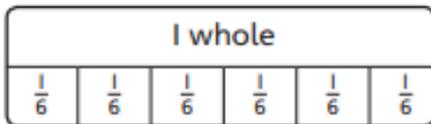
Key Vocabulary

fraction	add	subtract	multiply
divide	greater than	less than	equal to
whole	total amount	whole number	the entire amount
equal parts	equal shares	mixed number	a whole and a fraction
denominator	number of equal parts	set of objects	collection of numbers
numerator	The parts being considered	interval	parts between 2 numbers
unit fraction	numerator = 1	tenths	ten equal parts
non unit fraction	numerator > 1	equivalent	equal to or same as

Representations

**Bar Model**

Represents how the whole can be split into equal parts and helps to solve fraction problems.



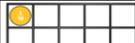
**Ten Frames**

A ten frame helps to develop an understanding of tenths. There are ten tenths in a whole

**Number line**

A number line is used to help order fractions. It can also be used to add and subtract fractions.



Image	Words	Fraction	Decimal
	One tenth	$\frac{1}{10}$	0.1
			
	Nine tenths		

Making connections

Adding and subtracting

When adding and subtracting fractions with the same denominator, the numerators can be calculated like a normal equation.

Multiplication and division

Use known multiplication and division facts to find equivalent fractions.

e.g.  $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$   
Both the numerator and denominator were doubled each time.

