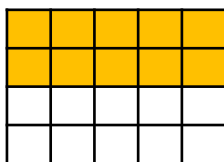
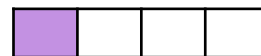
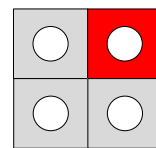


# Fraction

An equal part of a whole.



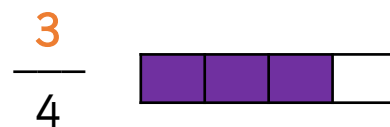
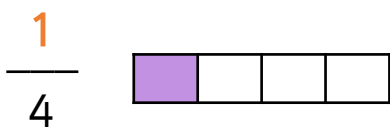
$$\frac{1}{2} \quad \frac{3}{5}$$



masterthecurriculum.co.uk

# Numerator

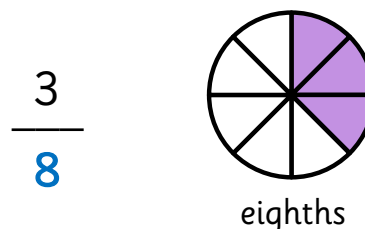
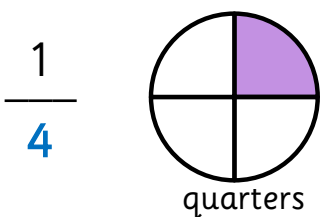
The top number in a fraction.  
It shows how many parts we have.



masterthecurriculum.co.uk

# Denominator

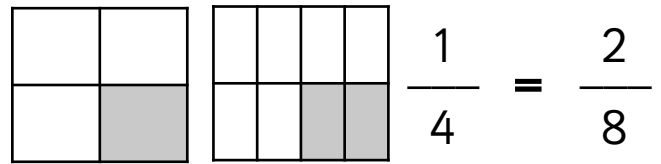
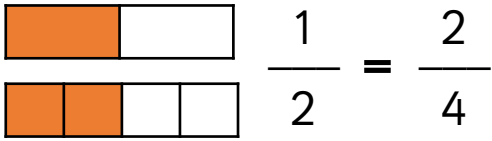
The bottom number in a fraction.  
It shows how many equal parts the whole has been divided into.



masterthecurriculum.co.uk

# Equivalent Fractions

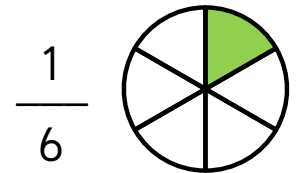
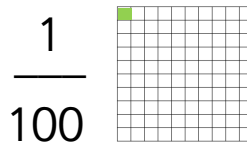
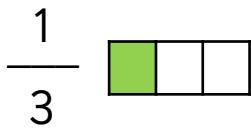
Different fractions that are worth the same amount.



masterthecurriculum.co.uk

# Unit Fraction

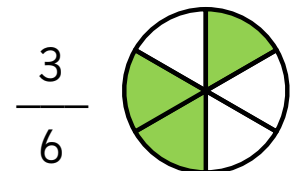
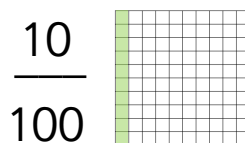
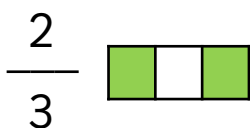
A fraction where the numerator is one.



masterthecurriculum.co.uk

# Non-Unit Fraction

A fraction where the numerator is greater than 1.



masterthecurriculum.co.uk

# Proper Fraction

A fraction where the numerator is less than the denominator.

Less →  $\frac{1}{2}$     $\frac{17}{20}$     $\frac{40}{100}$

masterthecurriculum.co.uk

# Improper Fraction

A fraction where the numerator is greater than or equal the denominator.

Greater →  $\frac{100}{51}$     $\frac{25}{4}$     $\frac{2}{2}$

masterthecurriculum.co.uk

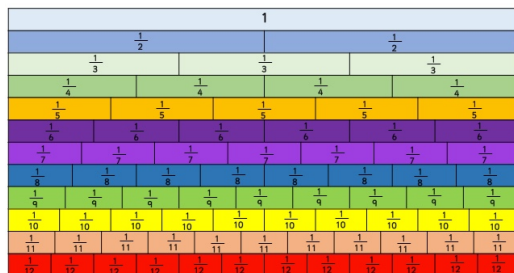
# Mixed Fraction

A whole number and a fraction combined.

Whole number →  $1 \frac{3}{5}$  ← Fraction

masterthecurriculum.co.uk

# Fraction Wall



masterthecurriculum.co.uk

# Number Sequence

A list of numbers or objects in a special order.  
This is a number sequence using fractions.

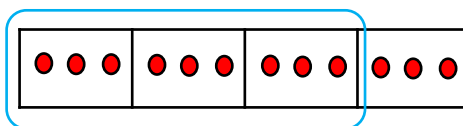
$$\frac{1}{13}, \frac{3}{13}, \frac{5}{13}, \frac{7}{13}, \frac{9}{13}, \frac{11}{13}$$

masterthecurriculum.co.uk

# Quantity

An amount, measure, or number of something.  
You can find fractions of a quantity.

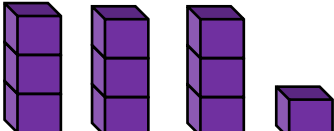
$$\frac{3}{4} \text{ of } 12 = 9$$



masterthecurriculum.co.uk

# Concrete Method

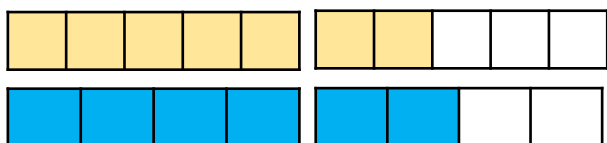
Using real life objects to help understand and visualise maths statements or problems.

Converting the improper fraction  $\frac{10}{3}$  into a mixed number using cubes.  =  $3 \frac{1}{3}$

masterthecurriculum.co.uk

# Pictorial Method

Using picture images, such as bar models to help visualise maths statements or problems.



Comparing  $\frac{7}{5}$  and  $\frac{6}{4}$ .

masterthecurriculum.co.uk

# Abstract Method

$$\frac{1}{5} \begin{matrix} \times 4 \\ = \\ \times 4 \end{matrix} \frac{4}{20}$$

A strategy that does not make use of illustrations or equipment.

masterthecurriculum.co.uk

# Fractions as Operators

A fraction can be used to “operate” on a quantity and act as a function.

$$\frac{5}{6} \text{ of } 12 = \begin{cases} 12 \div 6 \text{ and then multiplied by } 5 \\ 12 \times 5 \text{ and then divided by } 6 \end{cases}$$

masterthecurriculum.co.uk

# Common Denominator

$$\frac{1}{25} \quad \frac{3}{15} \quad 1 \frac{3}{5}$$

When the denominator of 2 or more fractions are the same multiple.

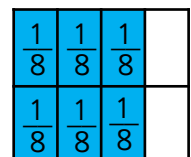
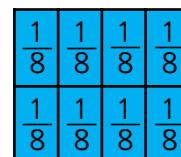
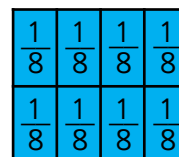
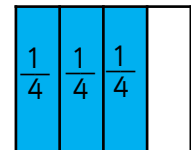
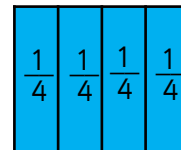
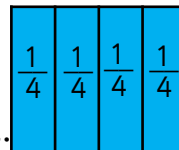
The common denominator is 5.

masterthecurriculum.co.uk

# Flexible Partitioning

Creating new mixed numbers from your fraction.

Both rows show  $2 \frac{3}{4}$  partitioned.



masterthecurriculum.co.uk

# Whole Number

A number that is not a decimal, fraction, or a negative number.

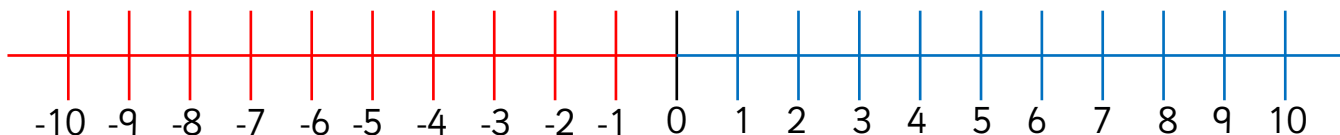
10      55      1,048      97

masterthecurriculum.co.uk

# Integer

A whole number that can be positive, negative, or zero.

-10      0      791      -88



masterthecurriculum.co.uk

# Commutativity

This concept means that you can swap numbers around and still get the same answer when you add or multiply fractions.

$$\frac{2}{q} \times 2 = \frac{4}{q} \qquad 2 \times \frac{2}{q} = \frac{4}{q}$$

masterthecurriculum.co.uk

Fractions Year 6

## Fraction

An equal part of a whole.

$$\frac{1}{2} \quad \frac{3}{5}$$

masterthecurriculum.co.uk

Fractions Year 6

## Equivalent Fractions

Different fractions that are worth the same amount.

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

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

masterthecurriculum.co.uk

Fractions Year 6

## Proper Fraction

A fraction where the numerator is less than the denominator.

Less  $\rightarrow$   $\frac{1}{2}$   $\frac{17}{20}$   $\frac{40}{100}$

masterthecurriculum.co.uk

Fractions Year 6

## Numerator

The top number in a fraction. It shows how many parts we have.

$$\frac{1}{4}$$

$$\frac{3}{4}$$

masterthecurriculum.co.uk

Fractions Year 6

## Unit Fraction

A fraction where the numerator is one.

$$\frac{1}{3}$$

$$\frac{1}{100}$$

$$\frac{1}{6}$$

masterthecurriculum.co.uk

Fractions Year 6

## Improper Fraction

A fraction where the numerator is greater than or equal the denominator.

Greater  $\rightarrow$   $\frac{100}{51}$   $\frac{25}{4}$   $\frac{2}{2}$

masterthecurriculum.co.uk

Fractions Year 6

## Denominator

The bottom number in a fraction. It shows how many equal parts the whole has been divided into.

$$\frac{1}{4}$$

$$\frac{3}{8}$$

quarters eighths

masterthecurriculum.co.uk

Fractions Year 6

## Non-Unit Fraction

A fraction where the numerator is greater than 1.

$$\frac{2}{3}$$

$$\frac{10}{100}$$

$$\frac{3}{6}$$

masterthecurriculum.co.uk

Fractions Year 6

## Mixed Fraction

A whole number and a fraction combined.

Whole number  $\rightarrow$  1  $\frac{3}{5}$   $\leftarrow$  Fraction

masterthecurriculum.co.uk

Fractions Year 6

## Fraction Wall

masterthecurriculum.co.uk

Fractions Year 6

## Concrete Method

Using real life objects to help understand and visualise maths statements or problems.

Converting the improper fraction  $\frac{3}{10}$  into a mixed number using cubes.  $3 \frac{1}{3}$

masterthecurriculum.co.uk

Fractions Year 6

## Whole Number

A number that is not a decimal, fraction, or a negative number.

10 55 1,048 97

masterthecurriculum.co.uk

Fractions Year 6

## Number Sequence

A list of numbers or objects in a special order. This is a number sequence using fractions.

$$\frac{1}{13}, \frac{3}{13}, \frac{5}{13}, \frac{7}{13}, \frac{9}{13}, \frac{11}{13}$$

masterthecurriculum.co.uk

Fractions Year 6

## Pictorial Method

Using picture images, such as bar models to help visualise maths statements or problems.

Comparing  $\frac{7}{5}$  and  $\frac{6}{4}$ .

masterthecurriculum.co.uk

Fractions Year 6

## Integer

A whole number that can be positive, negative, or zero.

-10 0 791 -88

masterthecurriculum.co.uk

Fractions Year 6

## Quantity

An amount, measure, or number of something. You can find fractions of a quantity.

$\frac{3}{4}$  of 12 = 9

masterthecurriculum.co.uk

Fractions Year 6

## Abstract Method

A strategy that does not make use of illustrations or equipment.

$$\frac{1}{5} \times 4 = \frac{4}{20}$$

masterthecurriculum.co.uk

Fractions Year 6

## Commutativity

This concept means that you can swap numbers around and still get the same answer when you add or multiply fractions.

$$\frac{2}{9} \times 2 = \frac{4}{9} \quad 2 \times \frac{2}{9} = \frac{4}{9}$$

masterthecurriculum.co.uk

Fractions Year 6

## Fractions as Operators

A fraction can be used to "operate" on a quantity and act as a function.

$\frac{5}{6}$  of 12 =  $\left\{ \begin{array}{l} 12 \div 6 \text{ and then multiplied by } 5 \\ 12 \times 5 \text{ and then divided by } 6 \end{array} \right.$

masterthecurriculum.co.uk

Fractions Year 6

## Common Denominator

When the denominator of 2 or more fractions are the same multiple.

$\frac{1}{25}$   $\frac{3}{15}$   $1 \frac{3}{5}$

The common denominator is 5.

masterthecurriculum.co.uk

Fractions Year 6

## Flexible Partitioning

Creating new mixed numbers from your fraction.

Both rows show  $2 \frac{3}{4}$  partitioned.

masterthecurriculum.co.uk

Year 6 – Fractions Vocabulary Assessment masterthecurriculum.co.uk

Fraction	Numerator	Denominator	
Equivalent Fractions	Unit Fraction	Non-Unit Fraction	
Proper fraction	Improper fraction	Mixed Fraction	
Fraction Wall	Number Sequence	Quantity	
Concrete Method	Pictorial Method	Abstract Method	
Fractions as Operators	Common Denominator	Flexible Partitioning	
Whole Number	Integer	Commutativity	

Year 6 – Fractions Vocabulary Assessment					
					masterthecurriculum.co.uk
Fraction		Numerator		Denominator	
Equivalent Fractions		Unit Fraction		Non-Unit Fraction	
Proper fraction		Improper fraction		Mixed Fraction	
Fraction Wall		Number Sequence		Quantity	
Concrete Method		Pictorial Method		Abstract Method	
Fractions as Operators		Common Denominator		Flexible Partitioning	
Whole Number		Integer		Commutativity	

Year 6 – Fractions Vocabulary Assessment					
					masterthecurriculum.co.uk
Fraction		Numerator		Denominator	
Equivalent Fractions		Unit Fraction		Non-Unit Fraction	
Proper fraction		Improper fraction		Mixed Fraction	
Fraction Wall		Number Sequence		Quantity	
Concrete Method		Pictorial Method		Abstract Method	
Fractions as Operators		Common Denominator		Flexible Partitioning	
Whole Number		Integer		Commutativity	

Year 6 – Fractions Vocabulary Assessment					
					masterthecurriculum.co.uk
Fraction		Numerator		Denominator	
Equivalent Fractions		Unit Fraction		Non-Unit Fraction	
Proper fraction		Improper fraction		Mixed Fraction	
Fraction Wall		Number Sequence		Quantity	
Concrete Method		Pictorial Method		Abstract Method	
Fractions as Operators		Common Denominator		Flexible Partitioning	
Whole Number		Integer		Commutativity	