## Fractions

A fraction is a part of a whole.
A common fraction is made up of a denominator and a numerator.
The numerator is shown above the line, and it represents the number of parts of the whole.

The denominator is shown underneath the line, and it represents the number of parts into which the whole has been divided.

This shape shows $1 / 3$


The numerator is ' 1 ', meaning 1 part of the whole.
The denominator is ' 3 ', meaning the whole has been divided into 3 parts.
Proper Fractions: tion, where the numerator is smaller than the denominator.
E.g 1/8, 3/4, 7/8, etc

Improper Fractions:

An improper fraction is a fraction where the numerator is greater than the denominator. Therefore it has a total value which is greater than one whole.
E.g 5/4, 11/8, 8/6 etc

## Equivalent fractions

These are fractions that may look different from each other, but have the same value.
E.g $1 / 4$ is worth the same as $2 / 8$
$1 / 2$ is the same as $2 / 4,5 / 10$ etc


Mixed number fractions.
A mixed number fraction is a fraction that is made up of a whole number plus a fraction.

## Simplified fractions.

A simplified fraction is a fraction that has been fully reduced to its lowest term. This can be done when the denominator and numerator can both be divided by the same number.
E.g 4/16 can be simplified to $1 / 4$ by dividing both the numerator and denominator by 4.

10/20 can be simplified to $1 / 2$ by dividing both the numerator and denominator by 10.

