Fractions

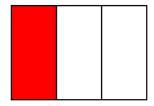
A fraction is a part of a whole.

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:

A proper fraction is a standard fraction, 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.

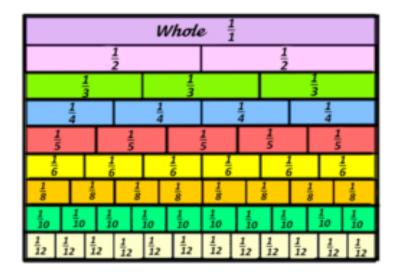
E.g 5/4, 11/8, 8/6 etc

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.