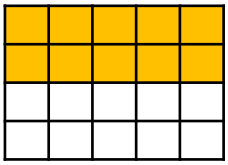
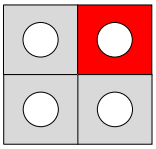
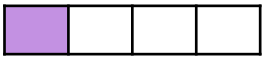
Fraction

An equal part of a whole.



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

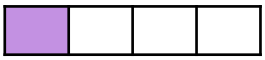




Numerator

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

$\frac{1}{4}$

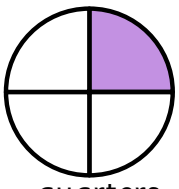


$\frac{3}{4}$

Denominator

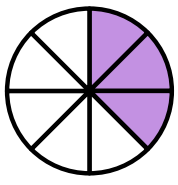
The bottom number in a fraction.
It shows how many equal parts the whole has been divided into.

$\frac{1}{4}$



quarters

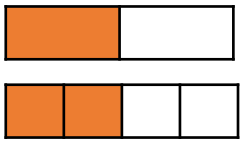
$\frac{3}{8}$



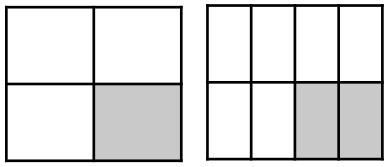
eighths

Equivalent Fractions

Different fractions that are worth the same amount.



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

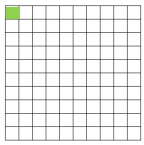


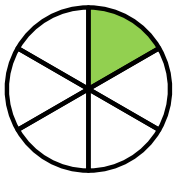
$\frac{1}{4} = \frac{2}{8}$

Unit Fraction

A fraction where the numerator is one.

$\frac{1}{3}$ 

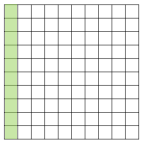
$\frac{1}{100}$ 

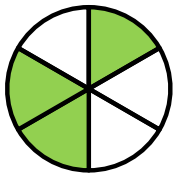
$\frac{1}{6}$ 

Non-Unit Fraction

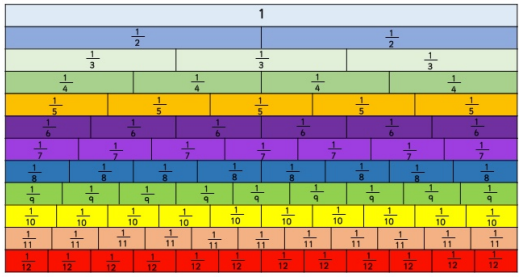
A fraction where the numerator is greater than 1.

$\frac{2}{3}$ 

$\frac{10}{100}$ 

$\frac{3}{6}$ 

Fraction Wall



Number Sequence

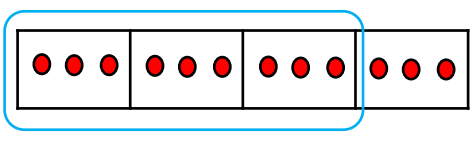
A list of numbers or objects in a special order.
This is a number sequence using fractions.

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

Quantity

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

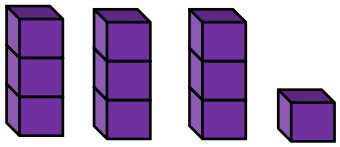
$\frac{3}{4}$ of 12 = 9



Concrete Method

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

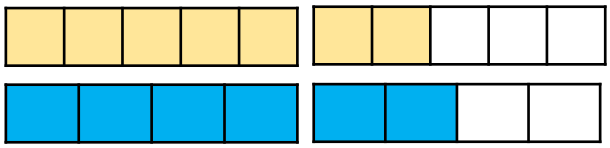
Converting the improper fraction $\frac{3}{10}$ into a mixed number using cubes.



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

Pictorial Method

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



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

Abstract Method

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

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

Fractions as Operators

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

$\frac{5}{6}$ of 12 =

- 12 ÷ 6 and then multiplied by 5
- 12 x 5 and then divided by 6

Common Denominator

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

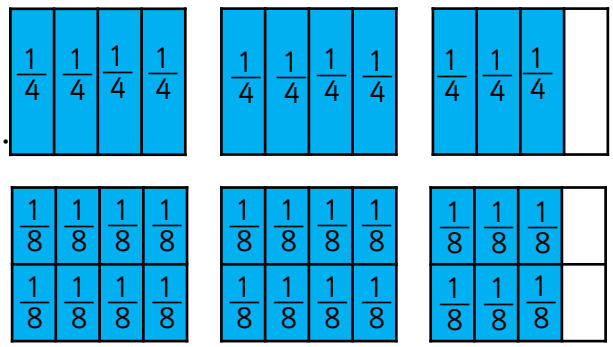
The common denominator is 5.

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

Flexible Partitioning

Creating new mixed numbers from your fraction.

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



Whole Number

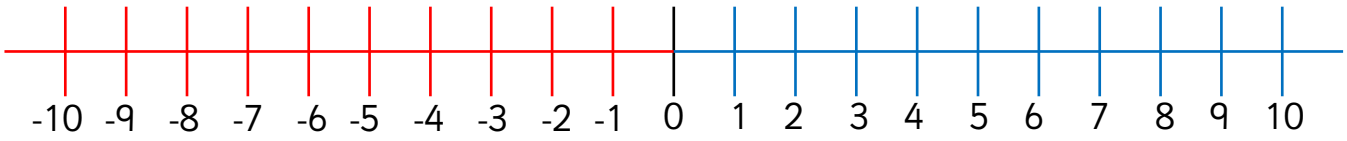
A number that is not a decimal, fraction, or a negative number.

10 55 1,048 97

Integer

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

-10 0 791 -88



Commutativity

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

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