

## Factor

A factor is a number which divides exactly into another number. 1 is a factor of every number and every number is a factor of itself. A number can have several factors. Example: 1, 2, 5 and 10 are the factors of 10



## Product

The result of multiplying one number by another, eg the product of 4 and 5 is 20 since  $4 \times 5 = 20$



## Rearrange

A formula can be rearranged by making a different letter the subject of the formula. This can be done by using inverse operations.

## Expression

Numbers, symbols and operators grouped together - one half of an equation, eg

$$2bf + 2f + 3k$$



## Equation

Equations are made up of two expressions on either side of an equals sign.



## Inverse operation

Inverse operations are opposite calculations often used in solving equations. To remove +9 from a sum, perform the inverse operation which is -9

## Substitution

The algebraic process of swapping letters for numbers. For example, if  $a=2$  this can be substituted into the expression  $6a$  to give  $6 \times 2 = 12$



## Linear equation

An equation where the maximum power of any variable is 1 and its graph is a straight line when plotted.



## Coefficient

In the equation  $4x + 9 = 1$ , the number, 4, multiplying the  $x$  is called the coefficient of  $x$

## Factorise

To put an expression into brackets.  
For example,  $18x + 12y = 6(3x + 2y)$ . Factorising is the reverse process to expanding



## Inequality

A statement showing that an expression is less than, greater than, or not equal to another expression.



## Integer

Integers are whole numbers.

## Gradient

Another word for steepness. On a graph, the gradient is defined as being the change in the 'y' value divided by the change in the 'x' value. It defines how steep a line is.



## Translation

To move an object in a specific direction by a specific amount.



## Reciprocal

The reciprocal of a number is 1 divided by that number. The reciprocal of a fraction is that fraction turned upside down, eg the reciprocal of  $\frac{3}{4}$  is  $\frac{4}{3}$