

A Fill in the missing words from the word bank.

Word bank

Two words are not needed.

coefficient

equation

expand

expression

factorising

formula

identity

inequality

like

simplify

solve

substitute

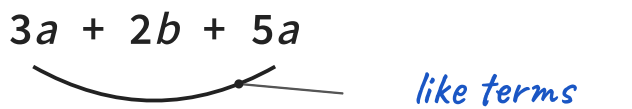
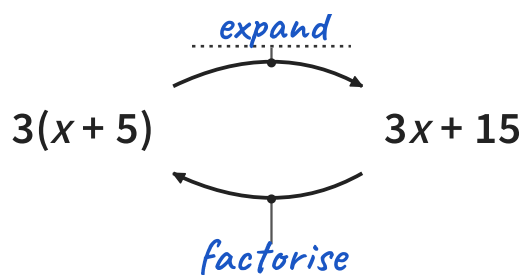
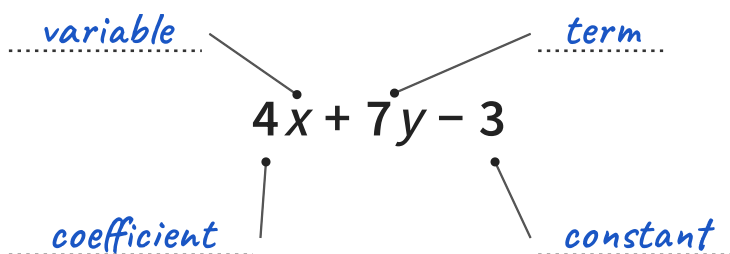
term

A term is a number, a letter, or numbers and letters multiplied together, such as $5x$. In $5x$ the 5 is the coefficient.

An expression is a collection of terms with no equals sign, such as $3a + 4b$. An equation has an equals sign and can be solved to find the unknown, such as $2x + 1 = 9$. A formula shows how to work out one quantity from others, such as $A = lw$ for the area of a rectangle. An identity is true for every value of the letter, such as $2(x + 3) \equiv 2x + 6$.

To simplify $4y + 3y$ you collect like terms to get $7y$. To expand $5(x + 2)$ you multiply out the bracket to get $5x + 10$. Writing $5x + 10$ as $5(x + 2)$ is called factorising. To substitute $a = 4$ into $3a$ means to put 4 in place of a , which gives 12.

B Label the diagram. No word bank this time. Each label gives the first letter.



C Each sentence uses the wrong key word. Cross it out and write the right word.

1 $2x + 5 = 11$ is an expression.

equation

2 $P = 2l + 2w$ is an identity for the perimeter of a rectangle.

formula

3 In $8y$ the 8 is the term.

coefficient

4 Writing $6x + 9$ as $3(2x + 3)$ is called expanding.

factorising