

We can evaluate an expression or formula by substituting (replacing)	ssions, Equations and Inequalities (Part 1) Examples:			Other Topics/Units this could appear in:• Expressions & • Factorising substituting into • Solving Equations simple formulae • Subject of • Expand and simplify• Inequalities		
a letter or letters in the expression or formula with a number.	Work out the value of these expressions when $n = 3$.				Keyword/Skill	Definition/Tips
	a) 2n	b) n – 3	c) 2n – 10	d) n² + 2n	Variable	A symbol for a number we do not know yet, it is usually a letter.
b) 2n means 2 x n so 2 c) 2 x 3 - 10 = 6 - 10 =			6 b) 3 – 3 = 0 d) n² mea 3 x 3 +	ans n x n so 2 x 3 = 9 + 6 = 15	Term Either a single number or a variable , such as 4 or n or 3a or 6y.	
Factorised and Unfactorising					Expression	A mathematical statement written using symbols , numbers or letters .
p p $4p$	(p+q)	with Shape (Challenge)		Equation	A statement showing that two expressions are equal.	
				• • • •	Formula	Shows the relationship between two or more variables .
			"Two groups of length $2p + q$ "		Simplifying Expressions	Collect 'like terms'. Be careful with negatives. x^2 and x are not like terms.
4n + 4a = 4(n + a)				- <i>a</i>)	Substitute	In algebra it means replacing letters with numbers.
We can write an expression for the perimeter of a shape in factorised and unfactorised form.			You can see four groups of length $p + q$ e.g. Four of		Expand	When we multiply a term across a bracket, e.g. 3(a + 2) = 3a + 6
					Factorise	The inverse of expand . When we divide an expression by all common factors or terms , e.g. 6g + 4 = 2(3g + 2) and $a^2 - 2a = a(a - 2)$