

a Expand $(x + 3)(x + 5)$ $x^2 + 8x + 15$ expanding two brackets	b Expand $(x + 4)(x - 6)$ $x^2 - 2x - 24$ a negative term in a bracket	c Expand $(x - 3)^2$ $x^2 - 6x + 9$ squaring a bracket	d Expand $(3x - 2)(2x + 5)$ $6x^2 + 11x - 10$ a coefficient of x in both brackets
e Expand $(x + 1)(x - 1)(x + 2)$ $x^3 + 2x^2 - x - 2$ expanding three brackets	f Find the HCF of $12x^2y$ and $18xy^2$ $6xy$ the HCF of algebraic terms	g Factorise fully $12x^2y + 18xy^2$ $6xy(2x + 3y)$ factorising fully with two letters	h Factorise $x^2 + 7x + 12$ $(x + 3)(x + 4)$ factorising $x^2 + bx + c$
i Factorise $x^2 + 2x - 15$ $(x - 3)(x + 5)$ a negative number term	j Factorise $x^2 - 49$ $(x - 7)(x + 7)$ the difference of two squares	k Factorise $2x^2 + 7x + 3$ $(2x + 1)(x + 3)$ factorising $ax^2 + bx + c$	l Factorise fully $3x^2 - 12$ $3(x - 2)(x + 2)$ a common factor, then two squares

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