

a Simplify $(3x^2y)^3$ $27x^6y^3$ a power of a product	b Expand $(2x - 5)^2$ $4x^2 - 20x + 25$ squaring a bracket with a coefficient	c Expand and simplify $(x + 4)(x - 2) - (x - 3)(x + 1)$ $4x - 5$ subtracting a product of brackets	d Expand $(x + 2)^3$ $x^3 + 6x^2 + 12x + 8$ cubing a bracket
e Factorise $x^2 - 10x + 21$ $(x - 3)(x - 7)$ two negative factors	f Factorise $9x^2 - 16y^2$ $(3x - 4y)(3x + 4y)$ two squares with coefficients	g Factorise $3x^2 + 10x - 8$ $(3x - 2)(x + 4)$ $ax^2 + bx + c$ with a negative	h Factorise $6x^2 - 7x - 3$ $(3x + 1)(2x - 3)$ a coefficient of x^2 that is not prime
i Factorise fully $2x^3 - 18x$ $2x(x - 3)(x + 3)$ a letter factor, then two squares	j Factorise fully $4x^2 + 14x - 30$ $2(2x - 3)(x + 5)$ a common factor, then $ax^2 + bx + c$	k Factorise $x(y + 2) + 3(y + 2)$ $(x + 3)(y + 2)$ a bracket as the common factor	l Factorise $xy + 3x + 2y + 6$ $(x + 2)(y + 3)$ factorising in pairs

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