

Simplifying, Expanding and Factorising *ramp up*

ANSWERS

a Simplify $3a + 5a$ $8a$ collecting like terms	b Simplify $4x + 2y + x$ $5x + 2y$ unlike terms stay apart	c Simplify $6m - 2n - 4m + 5n$ $2m + 3n$ the sign goes with the term after it	d Simplify $3x^2 + 2x + x^2$ $4x^2 + 2x$ x and x^2 are unlike terms
e Simplify $3a \times 4b$ $12ab$ multiplying terms	f Simplify $x^3 \times x^4$ x^7 multiplying powers: add the indices	g Simplify $\frac{12y^5}{3y^2}$ $4y^3$ dividing powers: subtract the indices	h Expand $4(x + 3)$ $4x + 12$ multiply every term in the bracket
i Expand $-2(y - 5)$ $-2y + 10$ a negative outside the bracket	j Expand $a(a + 6)$ $a^2 + 6a$ a letter outside the bracket	k Factorise $10x + 15$ $5(2x + 3)$ factorising: a number common factor	l Factorise fully $6a^2 + 9a$ $3a(2a + 3)$ factorising fully: a number and a letter

The Maths Habit

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