



FACTORISING QUADRATICS

STAGE ONE

Ref: G227. **2S1**

A1 Factorise: $x^2 + 6x + 8$	A2 Factorise: $x^2 + 8x + 7$	A3 Factorise: $x^2 + 9x + 20$	A4 Factorise: $x^2 + 11x + 28$
B1 Factorise: $x^2 - 6x + 8$	B2 Factorise: $x^2 - 8x + 7$	B3 Factorise: $x^2 - 8x + 12$	B4 Factorise: $x^2 - 8x + 15$
C1 Factorise: $x^2 - 9x + 14$	C2 Factorise: $x^2 + 9x + 20$	C3 Factorise: $x^2 - 9x + 18$	C4 Factorise: $x^2 + 9x + 8$
D1 Factorise: $x^2 + 10x + 16$	D2 Factorise: $x^2 + 15x + 50$	D3 Factorise: $x^2 - 11x + 24$	D4 Factorise: $x^2 - 14x + 33$
E1 Factorise: $x^2 + x + \frac{1}{4}$	E2 Factorise: $x^2 + \frac{2}{3}x + \frac{1}{9}$	E3 Factorise: $x^2 + x + \frac{2}{9}$	E4 Factorise: $x^2 + 2x + \frac{8}{9}$



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<p>A1 Factorise: $x^2 + 6x + 8$ → 1×8 2×4 *</p> <p>$(x + 2)(x + 4)$</p>	<p>A2 Factorise: $x^2 + 8x + 7$ → 1×7 *</p> <p>$(x + 1)(x + 7)$</p>	<p>A3 Factorise: $x^2 + 9x + 20$ → 1×20 2×10 4×5 *</p> <p>$(x + 4)(x + 5)$</p>	<p>A4 Factorise: $x^2 + 11x + 28$ → 1×28 2×14 4×7 *</p> <p>$(x + 4)(x + 7)$</p>
<p>B1 Factorise: $x^2 - 6x + 8$ → 1×8 2×4 *</p> <p>$(x - 2)(x - 4)$</p>	<p>B2 Factorise: $x^2 - 8x + 7$ → 1×7 *</p> <p>$(x - 1)(x - 7)$</p>	<p>B3 Factorise: $x^2 - 8x + 12$ → 1×12 2×6 * 3×4</p> <p>$(x - 2)(x - 6)$</p>	<p>B4 Factorise: $x^2 - 8x + 15$ → 1×15 3×5 *</p> <p>$(x - 3)(x - 5)$</p>
<p>C1 Factorise: $x^2 - 9x + 14$ → 1×14 2×7 *</p> <p>$(x - 2)(x - 7)$</p>	<p>C2 Factorise: $x^2 + 9x + 20$ → 1×20 2×10 4×5 *</p> <p>$(x + 4)(x + 5)$</p>	<p>C3 Factorise: $x^2 - 9x + 18$ → 1×18 2×9 3×6 *</p> <p>$(x - 3)(x - 6)$</p>	<p>C4 Factorise: $x^2 + 9x + 8$ → 1×8 * 2×4</p> <p>$(x + 1)(x + 8)$</p>
<p>D1 Factorise: $x^2 + 10x + 16$ → 1×16 2×8 * 4×4</p> <p>$(x + 2)(x + 8)$</p>	<p>D2 Factorise: $x^2 + 15x + 50$ → 1×50 2×25 5×10 *</p> <p>$(x + 5)(x + 10)$</p>	<p>D3 Factorise: $x^2 - 11x + 24$ → 1×24 2×12 3×8 * 4×6</p> <p>$(x - 3)(x - 8)$</p>	<p>D4 Factorise: $x^2 - 14x + 33$ → 1×33 3×11 *</p> <p>$(x - 3)(x - 11)$</p>
<p>E1 Factorise: $x^2 + x + \frac{1}{4} = \left(x + \frac{1}{2}\right)\left(x + \frac{1}{2}\right)$</p>	<p>E2 Factorise: $x^2 + \frac{2}{3}x + \frac{1}{9} = \left(x + \frac{1}{3}\right)\left(x + \frac{1}{3}\right)$</p>	<p>E3 Factorise: $x^2 + x + \frac{2}{9} = \left(x + \frac{1}{3}\right)\left(x + \frac{2}{3}\right)$</p>	<p>E4 Factorise: $x^2 + 2x + \frac{8}{9} = \left(x + \frac{2}{3}\right)\left(x + \frac{4}{3}\right)$</p>