

**YEAR 10**

Expanding and Factorising

Expanding and factorising are opposites of each other. Check any factorisation by expanding it back out.

Section A · Expanding double brackets

1 $(x + 3)(x + 4) = x^2 + 7x + 12$

2 $(x + 5)(x - 2) = x^2 + 3x - 10$

3 $(x - 3)(x - 6) = x^2 - 9x + 18$

4 $(2x + 1)(x + 3) = 2x^2 + 7x + 3$

Section B · Factorising

1 $x^2 + 7x + 10 = (x + 2)(x + 5)$

2 $x^2 - x - 12 = (x - 4)(x + 3)$

3 $x^2 - 16 = (x - 4)(x + 4)$

4 $6x + 9 = 3(2x + 3)$

5 $x^2 + 9x + 20 = (x + 4)(x + 5)$