Multiplying Brackets

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① Expand the brackets

$(x+4)(x+3)$

$x(x+3)+4(x+3)$

$x^2+3x+4x+12$

Ans $= x^2+7x+12$

Q13) (ii) → (vi)

② Array

	x	$+3$
x	x^2	$+3x$
$+4$	$+4x$	$+12$

Ans $= x^2+7x+12$

Exercise 1.2

HW Q13+14

Answers: (i) $x^2 + 7x + 12$ (ii) $2x^2 + 5x + 3$ (iii) $2x^2 + 5x - 12$ (iv) $2x^2 + 8x - 10$ (v) $6x^2 + 13x - 5$ (vi) $2x^2 - 15x + 18$

13. Remove the brackets and simplify each of these:

(i) $(x + 4)(x + 3)$ (ii) $(2x + 3)(x + 1)$ (iii) $(x + 4)(2x - 3)$

(iv) $(2x - 2)(x + 5)$ (v) $(3x - 1)(2x + 5)$ (vi) $(2x - 3)(x - 6)$

Exercise 1.2

Answers: (i) $19x - 17$ (ii) $2x^2 - 17x$ (iii) $x - 10$ (iv) $2x^2 + 6x + 3$

14. Remove the brackets and simplify each of these:

(i) $3x - 5 + 4(4x - 3)$

(ii) $3x(x - 4) - x(x + 5)$

(iii) $3(2x - 4) - (5x - 2)$

(iv) $2(x^2 + 4x - 1) - 2x + 5$