

ALGEBRA - EXPAND AND SIMPLIFY (2) - CONNECT 4

Working in pairs – each person takes it in turns to choose a question from the question grid to answer. The correct solution will be found in the answer grid (if your solution is not in the grid, you need to reconsider your answer), and you can colour that box on the answer grid. To win, you need to connect four answers in a line (horizontally, vertically or diagonally) on the answer grid.

Question Grid				Answer Grid			
1 $(a - 1)^2$ $= a^2 - 2a + 1$	2 $(5a + 6)(2a - 3)$ $10a^2 - 15a + 12a - 18$ $10a^2 - 3a - 18$	3 $(3a - 8b)(2a - 7b)$ $6a^2 - 21ab - 16ab + 56b^2$ $6a^2 - 37ab + 56b^2$	4 $(2 - a)(5 - a)$ $a^2 - 7a + 10$	$a^2 + 7a + 10$ 19	$4a^2 - 4ab - 63b^2$ 16	$a^2 + 3a + 2$ 14	$a^2 - 8a + 16$ 18
5 $(2a + b)(3a + b)$ $6a^2 + 2ab + 3ab + b^2$ $6a^2 + 5ab + b^2$	6 $(3 + a)(a - 4)$ $a^2 - a - 12$	7 $(a + 5)(a + 9)$ $a^2 + 14a + 45$	8 $(a - 3)^2$ $a^2 - 6a + 9$	$a^2 - 4a + 4$ 11	$a^2 - 7a + 10$ 4	$12a^2 - 22a - 14$ 15	$a^2 - 9$ 9
9 $(a + 3)(a - 3)$ $a^2 - 9$	10 $(2a - 3b)(2a - 7b)$ $4a^2 - 14ab - 6ab + 21b^2$ $4a^2 - 20ab + 21b^2$	11 $(a - 2)^2$ $a^2 - 4a + 4$	12 $(4a - 2)(3a + 3)$ $12a^2 + 12a - 6a - 6$ $12a^2 + 6a - 6$	$4a^2 - 20ab + 21b^2$ 10	$a^2 + 3a - 18$ 20	$a^2 - 6a + 9$ 8	$10a^2 - 22a + 4$ 17
13 $(5 + a)(a - 6)$ $a^2 - a - 30$	14 $(a + 2)(a + 1)$ $a^2 + 3a + 2$	15 $(4a + 2)(3a - 7)$ $12a^2 - 28a + 6a - 14$ $12a^2 - 22a - 14$	16 $(2a + 7b)(2a - 9b)$ $4a^2 - 18ab + 14ab - 63b^2$ $4a^2 - 4ab - 63b^2$	$10a^2 - 3a - 18$ 2	$a^2 - 2a + 1$ 1	$a^2 - a - 12$ 6	$6a^2 - 37ab + 56b^2$ 3
17 $(5a - 1)(2a - 4)$ $10a^2 - 22a + 4$	18 $(a - 4)^2$ $a^2 - 8a + 16$	19 $(2 + a)(5 + a)$ $a^2 + 7a + 10$	20 $(a - 3)(a + 6)$ $a^2 + 3a - 18$	$a^2 + 14a + 45$ 7	$12a^2 + 6a - 6$ 12	$6a^2 + 5ab + b^2$ 5	$a^2 - a - 30$ 13