



This worksheet focuses on recognising patterns in binomial products and learning how to expand them effectively. Work through each question carefully and show all your workings.

Easy Questions

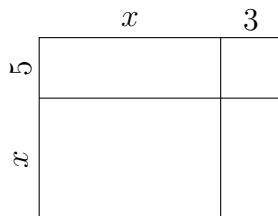
1. Expand $(a + b)^2$.
2. Expand $(a - b)^2$.
3. Expand $(x + 3)(x + 2)$.
4. Expand $(2x + 3)(x + 4)$.
5. Expand $(3y - 2)(y + 5)$.

Intermediate Questions

6. Expand $(2a + b)(3a + 4b)$.
7. Expand $(x + 7)(2x - 3)$.
8. Expand $(3m + 4)(m - 2)$.
9. Expand $(5p - 1)(2p + 3)$.
10. Expand $(2x + 5)(3x - 2)$.
11. Expand $(4a - 3)(2a + 7)$.
12. Expand $(x + 2)(x - 3)$.
13. Expand $(3x + 4)(x + 6)$.
14. Expand $(2y - 5)(4y + 9)$.
15. Expand $(a + 3b)(2a - 5b)$.
16. Expand $(3x - 7)(x + 8)$.
17. Expand $(2a + 4)(3a - 2)$.
18. Expand $(x - 3)(x - 5)$.
19. Expand $(2x + 3)(x - 6)$.
20. Expand $(5m + 2)(2m - 1)$.

Hard Questions

21. Given that $(x + a)(x + b) = x^2 + (a + b)x + ab$, expand $(x + 3)(x + 7)$.
22. Expand $(2x - 5)^2$.
23. Expand $(3a + 2b)(2a - 4b)$.
24. A rectangular plot has a length of $(x+4)$ and a width of $(x-2)$. Write an expression for its area and expand it fully.
25. Expand $(x + 3)(x + 5)$ using an area model.



Use the diagram to write down each term and then combine them to get the final expanded form.

26. Expand $(2x + 1)(3x + 2)$.
27. Expand $(4x - 3)(2x - 5)$.
28. Expand $[(x + 2) - 3][(x - 2) + 5]$.
29. Expand $(5y - 2)(y + 3)$.
30. Expand $(2a + 5)(a - 3)$.