

Multiplication Involving Indices

Write each of the following as a single term to a power, without using the multiplication sign

1. 5×5	2. $4 \times 4 \times 4$	3. $a \times a$
4. $b \times b \times b$	5. $2 \times a \times a$	6. $3 \times X \times X$
7. $4 \times b \times b$	8. $a \times a^2$	9. $x^2 \times x^2$
10. $4 \times a \times a^2$	11. $2 \times 3 \times a \times a$	12. $4 \times x \times x^2 \times 5$

Remove the brackets from the following expressions and simplify each.

13. $3(x^2 - 2) + 4(x^2 + 6)$	14. $3x(2x + 1) + 4x(x + 5)$
15. $3(x^2 + 2x + 3) + 2(x^2 - 3x - 2)$	16. $5a(a - 3) + 3a(2a + 5)$
17. $x(x + 4) + 2x(x + 3)$	18. $2a(2a - 6) - 4a(a + 8)$

Evaluate each of the following when $x = 3$

19. $2x$	20. x^2	21. $2x^2$	22. $6x^2$	23. $2x^2 + 2x$
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