



Here are 20 questions related to the distributive property, along with their answers:

****Questions:****

1. What is the distributive property in mathematics?
2. Use the distributive property to simplify: $3(4x + 2)$.
3. Simplify the expression: $2(3x - 5)$.
4. Apply the distributive property to simplify: $5(2a + 3b)$.
5. Simplify: $4(2x - 7)$.
6. Expand the expression: $6(2x + 4)$.
7. Use the distributive property to simplify: $8(x + 2y)$.
8. Simplify: $3(5a - 2b)$.
9. Expand the expression: $7(3x - 2y)$.
10. What is the distributive property often called in multiplication?
11. Simplify: $9(2a + 3b - c)$.
12. Apply the distributive property to simplify: $4(2x + 5) - 3(3x - 2)$.
13. Use the distributive property to simplify: $2(x - 3) + 4(2x + 1)$.
14. Simplify: $5(4a - 2b) + 3(2a + 7b)$.
15. Expand the expression: $2(3x - 4y) - 6(2x + y)$.
16. Simplify: $7(2x - 3y) + 2(4x + 5y)$.
17. Apply the distributive property to simplify: $3(2x - y) + 6(x + 4y)$.
18. Use the distributive property to simplify: $4(3x - 2) - 2(2x + 1)$.
19. Simplify: $6(2a + 3b) - 2(4a - 5b)$.
20. Expand the expression: $5(3x - 2y) - 2(4x - y)$.



****Answers:****

1. The distributive property in mathematics states that multiplication distributes over addition or subtraction, which means you can multiply each term inside parentheses by a common factor outside the parentheses.

2. $12x + 6$

3. $6x - 10$

4. $10a + 15b$

5. $8x - 28$

6. $12x + 24$

7. $8x + 16y$

8. $15a - 6b$

9. $21x - 14y$

10. The distributive property is often called "the distributive property of multiplication over addition (or subtraction)."

11. $18a + 27b - 9c$

12. $8x + 20 - 9x + 6$

13. $2x - 6 + 8x + 4$



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14. $20a + 35b$

15. $6x - 8y - 12x - 6y$

16. $14x - 21y + 8x + 10y$

17. $6x - 3y + 6x + 24y$

18. $12x - 8 - 4x - 2$

19. $12a + 18b - 8a + 10b$

20. $15x - 10y - 8x + 2y$