

Name _____

The Ultimate Distributive Property Review

Directions: Use the **Distributive Property** to simplify, expand, factor, or solve as needed. Show all work clearly.

Level 1 - Basic Numeric Practice

1. $6(4 + 2) =$
2. $-3(7 - 1) =$
3. $0.5(10 + 8) =$
4. $9 \times 3 + 9 \times 2 =$
5. $\frac{1}{2}(12 - 4) =$



Level 2 - One-Variable Expressions

6. $5(x + 3) =$
7. $-2(y - 6) =$
8. $0.25(a + 8) =$
9. $3(b + b + 2) =$
10. $2(x + 5) + 4(x - 3) =$

Level 3 - Multi-Term & Multi-Step

11. $2(x + y + 3) =$
12. $3(a - b + 4) =$
13. $4[(m + 2) + 3] =$
14. $6(2x - y) =$
15. $5(x + 4) - 3(x - 2) =$

Level 4 - Application & Reverse Problems

16. **Factor:** $12x + 18 =$
17. **Solve:** $3(x + 5) = 24$
18. **Word Problem:** A farmer packs 4 baskets, each with $(6\text{apples} + 3x\text{ oranges})$. Write and simplify the expression for the total fruit.