

Distributive Property Worksheet Answer Key

Doing Your Part to Rid the World of Parentheses

Use the distributive property to group terms or simplify the following expressions.

1. $3(6x + 2)$

$$18x + 6$$

2. $30 + 20a + 15ab$

$$5(6 + 4a + 3ab)$$

3. $-6(2m - 3) - 18$

$$-12m + 18 - 18 = -12m$$

4. $-20a^2 + 5ab + 10b^2$

$$5(-4a^2 + ab + 2b^2)$$

5. $-6 + 3(2 + 5x) - 10x$

$$-6 + 6 + 15x - 10x = 5x$$

6. $7(y - 2x)2y + 2x(14y - 1)$

$$14y^2 - 28xy + 28xy - 2x = 14y^2 - 2x$$

7. $(9 - 3l)m + l(2m + 9)$

$$9m - 3lm + 2lm + 9l = 9m - lm + 9l$$

8. $2x^2 + 10xy + 6x$

$$2x(x + 10 + 3)$$

9. $a(a + b) + (a + b)b$

$$a^2 + 2ab + b^2$$

10. $3x^2 + 5lx + 6x^2y + 10lxy$

$$(3x^2 + 5lx) + 2y(x^2 + 5lx) \\ (1 + 2y)(3x^2 + 5lx)$$

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