1-4 Study Guide and Intervention

The Distributive Property

Evaluate Expressions The Distributive Property can be used to help evaluate expressions.

Distributive Property	For any numbers a, b, and c, $a(b + c) = ab + ac$ and $(b + c)a = ba + ca$ and $a(b - c) = ab - ac$ and $(b - c)a = ba - ca$.

Example 1 Use the Distributive Property to rewrite $6(8 + 10)$. Then evaluate.

$6(8 + 10) = 6 \cdot 8 + 6 \cdot 10$ Distributive Property
$\qquad = 48 + 60$ Multiply.
$\qquad = 108$ Add.

Example 2 Use the Distributive Property to rewrite $-2(3x^2 + 5x + 1)$. Then simplify.

$-2(3x^2 + 5x + 1) = -2(3x^2) + (-2)(5x) + (-2)(1)$ Distributive Property
$\qquad = -6x^2 + (-10x) + (-2)$ Multiply.
$\qquad = -6x^2 - 10x - 2$ Simplify.

Exercises

Use the Distributive Property to rewrite each expression. Then evaluate.

1. $20(31)$ **620**

2. $12 \cdot 4\frac{1}{2}$ **54**

3. $5(311)$ **1555**

4. $5(4x - 9)$ **20x − 45**

5. $3(8 - 2x)$ **24 − 6x**

6. $12\left(6 - \frac{1}{2}x\right)$ **72 − 6x**

7. $12\left(2 + \frac{1}{2}x\right)$ **24 + 6x**

8. $\frac{1}{4}(12 - 4t)$ **3 − t**

9. $3(2x - y)$ **6x − 3y**

10. $2(3x + 2y - z)$
    6x + 4y − 2z

11. $(x - 2)y$
    xy − 2y

12. $2(3a - 2b + c)$
    6a − 4b + 2c

13. $\frac{1}{4}(16x - 12y + 4z)$
    4x − 3y + z

14. $(2 - 3x + x^2)3$
    6 − 9x + 3x²

15. $-2(2x^2 + 3x + 1)$
    −4x² − 6x − 2

[Distributive Property Study Guide](#)

Irene Doo

Distributive Property Study Guide:

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