

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.

$$\begin{aligned} 6(8 + 10) &= 6 \cdot 8 + 6 \cdot 10 \\ &= 48 + 60 \\ &= 108 \end{aligned}$$

Distributive Property
Multiply
Add

Example 2

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

$$\begin{aligned} -2(3x^2 + 5x + 1) &= -2(3x^2) + (-2)(5x) + (-2)(1) && \text{Distributive Property} \\ &= -6x^2 + (-10x) + (-2) && \text{Multiply} \\ &= -6x^2 - 10x - 2 && \text{Simplify} \end{aligned}$$

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. $\frac{1}{4}(12 - 4f)$ **$3 - f$**

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

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

Distributive Property Study Guide

M Mosston



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