

# 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

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## **Table of Contents Distributive Property Study Guide**

1. Understanding the eBook Distributive Property Study Guide
  - The Rise of Digital Reading Distributive Property Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Distributive Property Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Distributive Property Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Distributive Property Study Guide
  - Personalized Recommendations
  - Distributive Property Study Guide User Reviews and Ratings
  - Distributive Property Study Guide and Bestseller Lists

5. Accessing Distributive Property Study Guide Free and Paid eBooks
  - Distributive Property Study Guide Public Domain eBooks
  - Distributive Property Study Guide eBook Subscription Services
  - Distributive Property Study Guide Budget-Friendly Options
6. Navigating Distributive Property Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Distributive Property Study Guide Compatibility with Devices
  - Distributive Property Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Distributive Property Study Guide
  - Highlighting and Note-Taking Distributive Property Study Guide
  - Interactive Elements Distributive Property Study Guide
8. Staying Engaged with Distributive Property Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Distributive Property Study Guide
9. Balancing eBooks and Physical Books Distributive Property Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Distributive Property Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Distributive Property Study Guide
  - Setting Reading Goals Distributive Property Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Distributive Property Study Guide
  - Fact-Checking eBook Content of Distributive Property Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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