

## DISTRIBUTIVE PROPERTY

8-4

The **Distributive Property** is used to express a monomial-monomial or a polynomial-monomial as like terms by multiplying each factor of the polynomial. The resulting monomial is an equivalent monomial for algebraic operations. Also see the methods, page 199. In general, the Distributive Property is expressed as:

$$a(b + c) = ab + ac \quad \text{and} \quad (b + c)a = ba + ca$$

### Example 1

$$3(x + 4) = 3 \cdot x + 3 \cdot 4 = 3x + 12$$

### Example 2

$$4x + 7y + 10z = 4x + 12y + 10z + 7y + 7z = 4x + 19y + 17z$$

Simplify each expression below by applying the Distributive Property. Perform the correct order of operations in problems 18 through 22.

1.  $5(x + 3)$

2.  $4(x + 2)$

3.  $2(x + 6)$

4.  $3(x + 4)$

5.  $3(x + 4)$

6.  $4(x + 4)$

7.  $4(x + 4)$

8.  $4(x + 4)$

9.  $-4(x + 3)$

10.  $-4(x + 3)$

11.  $-4(x + 3)$

12.  $-4(x + 3)$

13.  $3(x + y + 6)$

14.  $5(x + y + 6)$

15.  $2(x + y + 6)$

16.  $-4(x + y + 6)$

17.  $4(x + 5y)$

18.  $4(x + 2y + 3z)$

19.  $4(x + 2y + 3z)$

20.  $4(x + 2y + 3z)$

21.  $3a(2b^2 + 7(\frac{1}{2}b + \frac{1}{2}) + 5^2)$

22.  $3a(2b^2 + \frac{1}{2}(4 + 2) + 4b)$

### Answers

1.  $5x + 15$  or  $5(x + 3)$  or  $5x + 15$

2.  $4x + 8$  or  $4(x + 2)$  or  $4x + 8$

3.  $2x + 12$

4.  $3x + 12$

5.  $3x + 12$

6.  $4x + 16$

7.  $4x + 16$

8.  $4x + 16$

9.  $-4x - 12$

10.  $-4x - 12$

11.  $-4x - 12$

12.  $-4x - 12$

13.  $3x + 3y + 18$

14.  $5x + 5y + 30$

15.  $2x + 2y + 12$

16.  $-4x - 4y - 24$

17.  $4x + 20y$

18.  $4x + 8y + 12z$

19.  $4x + 8y + 12z$

20.  $4x + 8y + 12z$

21.  $6ab^2 + 7a(\frac{1}{2}b + \frac{1}{2}) + 75a$

22.  $6ab^2 + 7a(\frac{1}{2}b + \frac{1}{2}) + 28a$

# Distributive Property Lesson Plans Algebra 2

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## **Distributive Property Lesson Plans Algebra 2:**

This book delves into Distributive Property Lesson Plans Algebra 2. Distributive Property Lesson Plans Algebra 2 is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Distributive Property Lesson Plans Algebra 2, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Distributive Property Lesson Plans Algebra 2
    - Chapter 2: Essential Elements of Distributive Property Lesson Plans Algebra 2
    - Chapter 3: Distributive Property Lesson Plans Algebra 2 in Everyday Life
    - Chapter 4: Distributive Property Lesson Plans Algebra 2 in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Distributive Property Lesson Plans Algebra 2. The second chapter will elucidate the essential principles that must be understood to grasp Distributive Property Lesson Plans Algebra 2 in its entirety.
  4. In chapter 3, the author will examine the practical applications of Distributive Property Lesson Plans Algebra 2 in daily life. This chapter will showcase real-world examples of how Distributive Property Lesson Plans Algebra 2 can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Distributive Property Lesson Plans Algebra 2 in specific contexts. This chapter will explore how Distributive Property Lesson Plans Algebra 2 is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Distributive Property Lesson Plans Algebra 2. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Distributive Property Lesson Plans Algebra 2.

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