

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

RM Cervero



Distributive Property Study Guide:

Algebra 1, Study Guide and Intervention Workbook McGraw-Hill/Glencoe,2002-06 **Eureka Math Curriculum Study Guide** Common Core,2015-03-23 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 3 provides an overview of all of the Grade 3 modules including Properties of Multiplication and Division and Solving Problems with Units of 2 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0 1 6 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data **Eureka Math Grade 3 Study Guide** Great Minds,2015-11-09 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum

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