

DISTRIBUTIVE PROPERTY

8-4

The **Distributive Property** is used to express a monomial-multiplier or a polynomial-multiplier as linear terms by multiplying each factor as terms of the polynomial. The resulting expression is an equivalent monomial or algebraic expression. 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

$$2(x + 4) = 2 \cdot x + 2 \cdot 4 = 2x + 8$$

Example 2

$$3x + 7y + 10z = (2 + 1)x + 7y + 10z = 2x + 4y + 10z$$

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. $2(x + 6y)$

4. $3(x + 4y)$

5. $3(x - 4)$

6. $4(x - 6)$

7. $-(2 + 3y + 4)$

8. $-(2 + 3y)$

9. $-4(x - 3)$

10. $-4(x - 3)$

11. $-4(y + 3)$

12. $-4(x + 3)$

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

14. $5(x + 2y + 3)$

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

16. $-4(3x + y + 2)$

17. $4(x + 2y)$

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

19. $4(2x^2 + 3x + 7)$

20. $4(x + 3 + x)$

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

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

Answers

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

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

3. $2x + 12y$

4. $3x + 12y$

5. $3x - 12$

6. $4x - 24$

7. $-2 - 3y - 4$

8. $-2 - 3y - 4$

9. $-4x + 12$

10. $-4x + 12$

11. $-4y - 12$

12. $-4x - 12$

13. $3x + 3y + 18$

14. $5x + 10y + 15$

15. $4x + 8y + 24$

16. $-12x - 4y - 8$

17. $8x^2 + 12x + 28$

18. $4x^2 + 8x + 12$

19. $12a^2 + 15a + 14$

20. $4x + 12y + 12$

21. $6a^2 + 3ab^2$

22. $3a^2 + 4ab^2$

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N Colangelo



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The Mathematics Lesson-Planning Handbook, Grades 6-8 Lois A. Williams, Beth McCord Kobett, Ruth Harbin Miles, 2018-12-28 Your blueprint to planning Grades 6-8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think This will never work for my students The Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6-8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence rigor and purpose of state standards and address the unique learning needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6-8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons that lead to mathematics achievement for all learners **Christian Home Educators' Curriculum Manual** Cathy Duffy, 1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home Every Math Learner, Grades 6-12 Nanci N. Smith, 2017-02-02 As a secondary mathematics teacher you know that students are different and learn differently And yet when students enter your classroom you somehow must teach these unique individuals deep mathematics content using rigorous standards The curriculum is vast and the stakes are high Is differentiation really the answer How can you make it work Nationally recognized math differentiation expert Nanci Smith debunks the myths revealing what differentiation is and isn't In this engaging book Smith reveals a practical approach to teaching for real learning differences You'll gain insights into an achievable daily differentiation process for ALL students Theory lite and practice heavy this book shows how to maintain order and sanity while helping your students know understand and even enjoy doing mathematics Classroom videos teacher vignettes ready to go lesson ideas and rich mathematics examples help you build a manageable framework of engaging sense making math Busy secondary mathematics teachers coaches and teacher teams will learn to Provide practical structures for assessing how each of your students learns and processes mathematics concepts Design

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Number Sense Routines Jessica Shumway, 2023-10-10 Following up her best selling book Number Sense Routines Building Numerical Literacy Every Day in Grades K 3 Jessica Shumway turns her focus to upper elementary classrooms Number Sense Routines Developing Mathematical Understanding Every Day in Grades 3 5 is about tapping into every child s innate number sense and providing daily connected experiences that are responsive to children s learning needs Consistent Daily Routines Work Adaptable to any curriculum Shumway s 5 10 or 15 minute warm up routines are an easy and effective way to build and solidify students number sense foundations as a supplement to any program Planning and Facilitating Your Classroom No matter how familiar the routine Shumway provides insight on how to keep daily warm ups fresh She reveals careful thinking and planning that goes into each routine and offers detailed vignettes and dialogues of how they unfold in real classrooms Assessment Strategies As students engage in the process each routine becomes an exciting opportunity to gain insight into where they are in their understanding and help students articulate their mathematical thinking Identify Big Ideas Not only will these math routines help develop students mathematical understanding as they move towards using standard algorithms but teachers will learn to better recognize the big ideas that emerge in discussions how to encourage important strategies based in number sense and how to facilitate conversations on key mathematical concepts These routines may appear in other places but I have never seen them written in such detail and with so many variations Although she makes what she does sound easy we all know that teaching math well is anything but easy It is challenging and complex Unpacking what students are saying helping them make connections not only to the math but to each other s ideas while simultaneously recording their ideas using mathematical models visuals or equations is no easy task Jessica provides wonderful visuals examples of student work and so much more to help educators develop the tools they need to improve their practice and in so doing improve student learning From the Foreword by math coach and consultant Lucy West

Pre-Algebra, Lesson Planning Guide , 2002-05

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