

## DISTRIBUTIVE PROPERTY

8-2

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

$$3x + 7y + 10z = (3 \cdot x) + (7 \cdot y) + (10 \cdot z) = 3x + 7y + 10z$$

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.  $2(x + 6)$

4.  $3(x + 4)$

5.  $3(x + 4)$

6.  $4(x + 4)$

7.  $2(x + 4)$

8.  $2(x + 4)$

9.  $-4(x + 3)$

10.  $-4(x + 3)$

11.  $-4(x + 3)$

12.  $-4(x + 3)$

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

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

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

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

17.  $4(x + 2y)$

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

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

20.  $3(x + 5 + 4)$

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

22.  $3a(2b^2 + \frac{1}{2}(4 + 5) + 4b)$

### 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.  $2x + 8$

8.  $2x + 8$

9.  $-4x - 12$

10.  $-4x - 12$

11.  $-4x - 12$

12.  $-4x - 12$

13.  $3x + 3y + 18$

14.  $5x + 10y + 15$

15.  $2x^2 + 2xy + 12$

16.  $4x^2 + 4xy + 12$

17.  $4x^2 + 8xy + 12$

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

19.  $2x^2 + 6x + 14$

20.  $3x + 15 + 4b$

# Distributive Property Lesson Plans Algebra 2

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

*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

**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 implement manage and formatively assess and respond to learning in a differentiated classroom Plan specific standards aligned differentiated lessons activities and assessments Adjust current instructional materials and program resources to better meet students needs This book

includes classroom videos in depth student work samples student surveys templates before and after lesson demonstrations examples of 5 day sequenced lessons and a robust companion website with downloadables of all the tools in the books plus other resources for further planning Every Math Learner Grades 6 12 will help you know and understand your students as learners for daily differentiation that accelerates their mathematics comprehension This book is an excellent resource for teachers and administrators alike It clearly explains key tenants of effective differentiation and through an interactive approach offers numerous practical examples of secondary mathematics differentiation This book is a must read for any educator looking to reach all students Brad Weinhold Ed D Assistant Principal Overland High School **Scott**

**Foresman-Addison Wesley Middle School Math** ,2002 *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 Differentiation Strategies for Mathematics Wendy Conklin,2009-12-16 Presented in an easy to implement format this handy notebook is designed to facilitate the understanding and process of writing differentiated lessons The lessons are based on various differentiation strategies including tiered assignments leveled questions and learning contracts Written specifically for K 12 mathematics teachers this resource comes with a CD Lesson Planning with Purpose Christy McConnell,Bradley Conrad,P. Bruce Uhrmacher,2020 This book takes readers on a journey through many pathways to engaging and meaningful educational experiences The text first discusses Perceptive Teaching and then explores five unique approaches to lesson planning behaviorist constructivist aesthetic ecological and integrated social emotional learning Chapters end with a sample lesson that can be compared across approaches *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

**Math for Everyone Teachers Edition** Nathaniel Rock, 2007 Tired of ten pound math textbooks Tired of math textbooks with 700 to 1 000 pages Tired of massive student failure in gatekeeper math courses like Algebra I Tired of math phobic students and their parents exclaiming I hate math Maybe it is time to try a different curriculum Math For Everyone is a curriculum designed to promote massive student and teacher math success Each year's content in the six math courses 7th Grade Math Algebra I Geometry I Algebra II Math Analysis and Calculus is boiled down into its essential vocabulary and 5-7 key concepts with particular attention paid to clarity and articulation between courses Assessment includes old favorites as well as authentic assessment with rubrics and grading advice included No text is longer than 80 pages as the 5-7 key concepts can be amply demonstrated and practiced in this amount of space Math For Everyone is not only great for new math teachers and struggling math students but great for everyone Nathaniel Max Rock is an educator since 2001 and the author of more than a dozen education books He has taught the following courses 7th Grade Math Algebra I Geometry I Algebra II Math Analysis Calculus as well as California High School Exit Exam CAHSEE Prep Classes AVID Elective 9th 10th grade and Carnegie Computer classes Max's authoring topics include math education and religion

**Pre-Algebra, Lesson Planning Guide**, 2002-05 **Teaching Mathematics in Secondary and Middle School** James S. Cangelosi, 1992 *Glencoe Algebra 1*, 2001 **Math Course 2**, 2007 *McDougal Littell Passport to Algebra and Geometry* Ron Larson, 1999 **Journal of Education & Psychology** Thekkey Kottiejath Narayana Menon, 1984

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## **Table of Contents Distributive Property Lesson Plans Algebra 2**

1. Understanding the eBook Distributive Property Lesson Plans Algebra 2
  - The Rise of Digital Reading Distributive Property Lesson Plans Algebra 2
  - Advantages of eBooks Over Traditional Books
2. Identifying Distributive Property Lesson Plans Algebra 2
  - 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 Lesson Plans Algebra 2
  - User-Friendly Interface
4. Exploring eBook Recommendations from Distributive Property Lesson Plans Algebra 2
  - Personalized Recommendations
  - Distributive Property Lesson Plans Algebra 2 User Reviews and Ratings
  - Distributive Property Lesson Plans Algebra 2 and Bestseller Lists
5. Accessing Distributive Property Lesson Plans Algebra 2 Free and Paid eBooks
  - Distributive Property Lesson Plans Algebra 2 Public Domain eBooks
  - Distributive Property Lesson Plans Algebra 2 eBook Subscription Services
  - Distributive Property Lesson Plans Algebra 2 Budget-Friendly Options

6. Navigating Distributive Property Lesson Plans Algebra 2 eBook Formats
  - ePub, PDF, MOBI, and More
  - Distributive Property Lesson Plans Algebra 2 Compatibility with Devices
  - Distributive Property Lesson Plans Algebra 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Distributive Property Lesson Plans Algebra 2
  - Highlighting and Note-Taking Distributive Property Lesson Plans Algebra 2
  - Interactive Elements Distributive Property Lesson Plans Algebra 2
8. Staying Engaged with Distributive Property Lesson Plans Algebra 2
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Distributive Property Lesson Plans Algebra 2
9. Balancing eBooks and Physical Books Distributive Property Lesson Plans Algebra 2
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Distributive Property Lesson Plans Algebra 2
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Distributive Property Lesson Plans Algebra 2
  - Setting Reading Goals Distributive Property Lesson Plans Algebra 2
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Distributive Property Lesson Plans Algebra 2
  - Fact-Checking eBook Content of Distributive Property Lesson Plans Algebra 2
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements



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web 1 introduction and review of the principles of dephasing 2 dephasing by the electron electron interaction 3 review of results in various dimensions 4 dephasing time vs electron electron scattering time 4 mesoscopic effects in equilibrium and static properties 1 introductory remarks thermodynamic fluctuation effects 2

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