

# Factoring Using the Distributive Property

Recall that the distributive property is

$$a(b+c) = ab + ac$$

When we factor using the distributive property, we are going in reverse. This means that we are trying to find the greatest common factor and pull it out to rewrite it.

$$ab + ac = a(b+c)$$

Let's look at a specific problem to fully understand how factoring with distribution works.

$$40 + 70 =$$

First, we need to find the greatest common factor (GCF) of 40 and 70. You may know this quickly in your head, or you may need to make a chart or list of factors.

40: 1, 2, 4, 5, 8, 10, 20, 40

70: 1, 2, 5, 7, 10, 14, 35, 70

Then divide each term by the GCF.

$$40 \div 10 = 4 \quad 70 \div 10 = 7$$

Now we have:  $10 \cdot 4 + 10 \cdot 7$

We can now pull out the common factor of 10 and rewrite the problem in factored form.

$$10(4+7)$$

You can check your answer by distributing to see if you come up with the original problem. In this case,  $10 \cdot 4 = 40$  and  $10 \cdot 7 = 70$ , so we know that we got the answer correct!

But what if there are variables in the terms?

If we have the problem  $7x + 7y$ , how do we factor using the distributive property?

We use the same procedure, find the GCF, remove it, and rewrite.

$$7x = 7 \cdot x$$

$$7y = 7 \cdot y$$

The only common factor is 7. The terms do not have a variable in common, so we factor out the 7 and leave the variables in the parenthesis.

$$7 \cdot x + 7 \cdot y = 7(x+y)$$

# Distributive Property Lesson Plans Algebra

**Larry Zafran**



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

Basic Algebra and Geometry Made a Bit Easier Lesson Plans Larry Zafran, 2010 This is the fifth book in the Math Made a Bit Easier series by independent math tutor Larry Zafran It contains 50 abridged lesson plans covering basic algebra and geometry for a target audience of tutors parents and homeschoolers Each lesson plan includes all of the components of a typical classroom lesson such as aim motivation warm up exercises demonstrative examples questions for thought and discussion and connections to earlier and later material This book is intended to be used in strict conjunction with the fourth book of the series Basic Algebra and Geometry Made a Bit Easier Concepts Explained in Plain English The book assumes that the instructor actually knows the material him herself but could benefit from having a general guideline to follow The author makes a point of identifying the concepts which most students tend to find easy or difficult including suggestions on how to help with the latter The book includes an introduction describing how the book can be put to best use as well as a section on how to effectively work with students who are struggling with the material The author explains that for the vast majority of students the root of the problem can be traced back to never having fully mastered basic math concepts and skills The book's lessons make frequent reference to reviewing earlier books in the series as needed so that the student masters all of the prerequisite material

**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

**Math Made a Bit Easier**

**Lesson Plans** Larry Zafran,2010-01-19 This is the third book in the Math Made a Bit Easier series by independent math tutor Larry Zafran It is a book of sixty lesson plans for tutors parents and homeschoolers Each lesson plan includes all the components of a typical classroom lesson such as aim motivation warm up exercises demonstrative examples questions for thought and discussion and connections to earlier and later material The math content in this book is directly aligned and ideally used in conjunction with the first book of the series and its companion workbook of practice exercises It covers the topics which comprise the foundation of math beginning with lessons in basic arithmetic followed by basic operations negative numbers fractions decimals percents and basic probability and statistics If these topics are not completely mastered later work will prove to be quite difficult This is especially true of algebra The book includes a chapter on how to be an effective math tutor as well as a chapter on how to optionally incorporate meditation instruction to help students get into a relaxed and alert state of mind which is ideal for learning math and taking exams **Pre-Algebra, Lesson Planning Guide**

,2002-05 *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 Meaningful Small Groups in Math, Grades K-5 Kimberly Rimbey,2022-08-19 Written for teachers interventionists and instructional coaches this book provides much needed guidance on how to meet the diverse needs of students using small group math instruction

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

**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 *Prentice Hall Algebra 1* Jan Fair,1992 **Scott Foresman-Addison Wesley Middle School Math** ,2002 **Holt Introductory Algebra 1** Jacobs,Russell F. Jacobs,1993 Algebra ,1993 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 *Algebra* John W. McConnell,1993 **Bridges to Algebra and Geometry** ,2004 *Math Course 2* ,2007 *Glencoe Algebra 1* McGraw-Hill/Glencoe,1997-03 **Houghton Mifflin Math Central: Student text** ,1998 **Middle School Math, Course 1** McDougal Littell Incorporated,2004 Pre-Algebra: an Integrated Technology Transition to Algebra and Geometry Student Edition McGraw Hill,2000-05-30 Glencoe Pre Algebra An Integrated Transition to Algebra and Geometry perfectly blends skill and concept development with the applications connections and critical thinking your students need to understand and apply algebra and geometry

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