

# 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

**Hussin A.Rothana**



## **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. *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. **Pre-Algebra, Lesson Planning Guide**, 2002-05 *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

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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     **Scott Foresman-Addison Wesley Middle School Math** ,2002     **Prentice Hall Algebra 1** Jan Fair,1992     *Algebra* ,1993     *Holt Introductory Algebra 1* Jacobs,Russell F. Jacobs,1993     *Algebra* John W. McConnell,1993     **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     **Bridges to Algebra and Geometry** ,2004     Glencoe Algebra 1 McGraw-Hill/Glencoe,1997-03     Houghton Mifflin Math Central: Student text ,1998     **Math Course 2** ,2007     **Journal of Developmental Education** ,2013

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