

# DISTRIBUTIVE PROPERTY

N

\* You can use facts you know to solve difficult multiplication problems.

$3 \times 14 = ?$  *I don't know! :-)* Break 14 into  $9 + 5$

So now you can do  $(3 \times 9) + (3 \times 5)$  *I know these! ☺*

$$3 \times 9 = 27$$

$$3 \times 5 = \begin{array}{r} 15 \\ \hline \end{array}$$

→ add these together

$$42$$

So  $3 \times 14 = 42$

# Distributive Property Lesson Ideas

**Ben Curran**

## Distributive Property Lesson Ideas:

**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

**Lessons for Extending Multiplication** Maryann Wickett,Marilyn Burns,2001 Lessons games and activities to increase children's multiplication skills

**Lessons Learned From Research on Mathematics Curriculum** Denisse R. Thompson,Mary Ann Huntley,Christine Suurtamm,2024-09-16 This volume focuses on lessons learned from conducting research on mathematics curriculum covering design development analysis implementation and classroom enactment It offers frameworks tools techniques and solutions to challenges with insights from international authors to strengthen the mathematics research community

**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

**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 Teaching the Child Mathematics Clarence W. Schminke, Norbert Maertens, William Arnold, William Ramon Arnold, 1973 Addison-Wesley Access to Algebra and Geometry Phares G. O'Daffer, 1995 **Everyday Mathematics** Max Bell, 2004 Contains easy to follow three part daily lesson plans. This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations. A unit organizer provides learning goals, planning and assessment support content highlights a materials chart, suggestions for problem solving, cross curricular links and options for individualizing. Each guide is grade level specific. Better Lesson Plans, Better Lessons Ben Curran, 2015-09-25 In today's high stakes world ready made lessons and teacher's guides are no longer enough to guarantee achievement. The best way to help students succeed is through deliberate and careful lesson planning focused on the end result of increasing student achievement. Whether you are a new teacher or an experienced educator this book will help you get started by providing a practical step by step guide to designing lessons that will lead to student mastery of any objective. You'll learn the essential components of lessons that are Common Core aligned and grounded in best practices. Topics include Tailoring your lessons to meet your state standards while ensuring high student achievement. Writing a strong objective to stay focused on the goal of a lesson. Creating an end of lesson assessment to gauge the lesson's success.

Constructing a lesson plan that combines direct instruction guided practice and independent practice Along the way you ll find plenty of helpful examples from math and English Language Arts You ll also find end of chapter FAQs and activities to try to help you make these concepts a reality for your own classroom Many of the tools from the book are also available as free downloads from our website [www.routledge.com/books/details/9781138838871](http://www.routledge.com/books/details/9781138838871) *Algebra*, 1996 *Pre-algebra* Phares G. O'Daffer, 1992 Pre algebra text with accompanying workbook and teacher s materials provides a program in mathematics which is a transition from arithmetic to algebra Includes decimals number theory equations percent ratio area and volume statistics and square roots **Today's Mathematics, Activities and Instructional Ideas** James W. Heddens, William R. Speer, 2000-08-31 This classic allows readers to easily build a valuable set of ideas and reference materials for actual classroom use Designed to aid the teacher in understanding mathematical concepts and relationships the authors reflect recent recommendations from the National Council of Teachers of Mathematics Standards 2000

**Resources for Performance-based Education** W. Robert Houston, 1973 **Helping Children Learn Mathematics** Robert E. Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, 2004-03-10 Grade level 1 2 3 4 5 6 7 8 k p e i t Christian Home Educators' Curriculum Manual Cathy Duffy, 1997-11 **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 *Algebra Through Applications, with Probability and Statistics*

First-Year Algebra via Applications Development Project, 1979      Teaching Mathematics in the Modern Elementary School  
Calhoun Crofford Collier, Harold H. Lerch, 1969      Seeing Through Mathematics; Teaching Guide Henry Van Engen, 1961

*Today's Mathematics, Concepts and Classroom Methods, and Instructional Activities* James W. Heddens, William R. Speer, 2005-04-11 From principles to practice all the tools you need to be an effective mathematics teacher Now combining theory methods and instructional activities in one convenient volume Heddens and Speer's Eleventh Edition of Today's Mathematics provides a valuable set of ideas and reference materials for actual classroom use The text will help you thoroughly understand what you need to teach to meet today's NCTM standards and how to present it in the most effective way possible This edition features a fully integrated CD of teacher resources With Today's Mathematics 11e you can Learn about contemporary philosophies and psychologies of learning teaching and assessing mathematics Explore the nature and scope of a beginning mathematics program for the primary grades Master the content strands commonly found in pre K Grade 8 mathematics curricula Examine the roles of problem solving decision making and communication in mathematics Discover effective ways to use tools such as calculators computers and technology in the classroom New virtual manipulatives CD The enclosed CD features a library of interactive web based manipulatives for mathematics instruction The CD also includes an overview of eight content strands a checklist of mathematical concepts organized by concept clusters several thematic mathematics activities and a vignette from the NCTM Also available from Wiley Jossey Bass The Math Teacher's Book of Lists 2nd Edition Judith A Muschla Gary Robert Muschla ISBN 0 7879 7398 X

The Enigmatic Realm of **Distributive Property Lesson Ideas**: Unleashing the Language is Inner Magic

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web the refractive index tells you the speed of light in a given material it is defined as  $n = c/v$  where  $c$  is speed of light in vacuum and  $v$  is velocity of light in the material the refractive index is used in not defined by snell's law which relates the angle of incidence to the angle of refraction when light passes from one material into

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web for light refraction follows snell's law which states that for a given pair of media the ratio of the sines of the angle of incidence and angle of refraction is equal to the ratio of phase velocities in the two media or equivalently to the refractive indices of the two media

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web jul 17 2023 when rays of light strike a spherical surface separating two transparent media with different refraction indices the light rays will be refracted in the same plane per the law of refraction the amount of refraction will depend on the angle of incidence and dioptric power of the spherical surface

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web light reflection refraction physics light rays change direction when they reflect off a surface move from one transparent

medium into another or travel through a medium whose composition is continuously changing

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web when a ray of light encounters an interface between two transparent media a portion of it is reflected and a portion is refracted and it is natural to ask even during an early introduction to the subject just what fraction is reflected and what fraction is refracted

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web for the ray to reflect back from the fourth medium it has to be a total internal reflection we are only considering primary rays so this is not a partial reflection which can only occur when light is going from a higher index of refraction to a lower one so  $n_3 > n_4$

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web light reflection and refraction light is a complex phenomena it exhibits both wave like and particle like properties its exact nature is not fully understood and this complexity makes it difficult for one model to describe all of light's properties as a result different models describe different aspects of light's behavior

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web much like reflection refraction also describes a change in direction of light but it differs from reflection refraction is a noticeable bending of light when it travels from one substance to another

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web the change in direction of a beam of light as it travels from one material to another is called refraction the normal is a construction line drawn at right angles to the surface of the glass

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web we see the light reflected off a mirror coming from a direction determined by the law of reflection the changing of a light ray's direction loosely called bending when it passes through variations in matter is called refraction

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web 3 2 2 references what is reflection when a ray of light comes back into the same medium after striking the surface of another medium then the phenomenon is called reflection of light in other words reflection is the bouncing back of the light rays from a surface in the same medium what is refraction

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web 692 reflection and refraction of light p25 9 a as measured from the diagram the incidence angle is 60 and the refraction angle is 35 from snell's law  $\sin \theta_1 / \sin \theta_2 = n_2 / n_1$  then  $\sin \theta_1 / \sin 35 = 60 / 2$   $v_2 = v_1 / n_2$  and the speed of light in the block is 20 10 8 ms b the frequency of the light does not change upon refraction

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web there are two laws that govern how light changes direction when it interacts with matter the law of reflection for situations in which light bounces off matter and the law of refraction for situations in which light passes through matter in this section we consider the geometric optics of reflection

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web refraction is the bending of light it also happens with sound water and other waves as it passes from one transparent substance into another this bending by refraction makes it possible for us to have lenses magnifying glasses prisms and rainbows even our eyes depend upon this bending of light

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