

Multiplication & Division Properties of Exponents

Nebraska Standards for Mathematics: SS12.1.1b; 12.1.3b; 12.1.3c; 12.3.3b; DK1-3

Common Core Standards for Mathematics: A.SSE.2

Objective: Students will understand how to simplify exponential expressions.

Students will know to add the exponents when multiplying like bases.

— subtract the exponents when dividing like bases

Students will be able to use the multiplication and division properties of exponents to simplify an expression.

Overview

Students will use [desmos.com](https://www.desmos.com) (or any graphing calculator) to explore the multiplication and division properties of exponents, specifically $a^m \cdot a^n = a^{m+n}$ and $\frac{a^m}{a^n} = a^{m-n}$. The exploration begins with making observations of odd power and even power functions as well as with a review of recognizing when two graphs are the same. Students will then graph given expressions where like bases are multiplied or divided. Based on the shape of the graph, students can determine if the expression is even or odd. By graphing the originally provided even/odd expressions at the beginning, students will determine the simplest form of each expression by looking for overlap in the graphs. By looking for a pattern in the exponents, students will be able to generalize the multiplication and division properties.

Prior Knowledge

- Definition of Exponents
- Identity Property of Exponents
- Zero Exponent Property
- Negative Exponent Property
- Working Knowledge of Desmos. Particularly, how to enter functions and zoom. Being able to turn functions on/off may be helpful, but not required.
- Be able to graphically recognize two functions are the same when they completely overlap one another, giving the appearance of only one line on the graph.

$$\text{e.g. } a^3 = a \cdot a \cdot a$$

$$a^1 = a$$

$$a^0 = 1$$

$$a^{-n} = \frac{1}{a^n} \quad \text{and} \quad \frac{1}{a^{-n}} = a^n$$

Assessment

- Monitor and check that students are filling in the properties correctly.
 - Engage with students during work/explore time to explain how they came to their conclusion(s).
- Practice problems on bottom of student handout.
 - Check while circulating, looking for incorrect answers to find and flush out misconceptions.
 - Did they change their bases?
 - Did they combine their exponents properly?
 - If necessary, direct them back to the exploration and learn how they completed the activity.
- Class discussion at conclusion of period, or following day.
- Quiz over exponent properties (about 4 days after)

Materials

- Student handout for each student (attached)
- Access to [desmos.com](https://www.desmos.com) for each student, or pairs of students if necessary.
Desmos is available online, [desmos.com](https://www.desmos.com), and as a free mobile app for Android and Apple devices.

Lesson Plan For Exponents

**Yau Yuen Yeung, Seifedine
Kadry, Guiyun Guan**



Lesson Plan For Exponents:

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 Phonics -

Pre-Algebra (eBook) Marilyn B. Hein, 2004-03-01 Basic math skills to prepare them for algebra Her fun methods and concrete examples will help younger students begin to grasp the principles of algebra before they actually have to deal with the complete course Included are easy to understand explanations and instructions wall charts games activity pages and worksheets As in all her Math Phonics books the author emphasizes three important principles understanding learning and mastery Students will learn about integers exponents and scientific notation expressions graphing slope binomials and trinomials In addition to helpful math rules and facts a complete answer key is provided As students enjoy the quick tips and alternative techniques for math mastery teachers will appreciate the easy going approach to a difficult subject **Math Instruction for Students with Learning Difficulties** Susan Perry Gurganus, 2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction *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 *This Is Not A Test* José Vilson, 2014-05-05 Jos Vilson writes about race class and education through stories from the classroom and researched essays His rise from rookie math teacher to prominent teacher leader takes a twist when he takes on education reform through his now blocked eponymous blog TheJoseVilson.com He calls for the reclaiming of the education profession while seeking social justice Jos Vilson is a middle school math educator for in the Inwood Washington Heights neighborhood of New York City He writes for Edutopia GOOD and Transformed Future of

Teaching and his work has appeared in Education Week CNN com Huffington Post and El Diario La Prensa **Math Instruction for Students with Learning Problems** Susan Perry Gurganus, 2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis **NYSTCE** Robert D. Postman, 2015-04-01 Barron's NYSTCE provides practice for the exams needed for obtaining certification for teaching in New York state This book features Two full length EAS Tests Two full length ALST Tests Multi Subject CST battery of three tests Math Literacy English LA and Fine Arts Strategies and Steps for passing the edTPA Answer explanations for all test questions This book will give you the help you need to pass your New York state certifications **A Resource Guide for Secondary School Teaching** Eugene C. Kim, Richard Dean Kellough, 1995 A resource manual for secondary teachers Eureka Math Algebra II Study Guide Great Minds, 2016-06-29 The team of teachers and mathematicians who created Eureka Math believe that it's not enough for students to know the process for solving a problem they need to know why that process works That's why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We're here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more

NMDME 2023 Yau Yuen Yeung, Seifedine Kadry, Guiyun Guan, 2024-01-22 This book contains the proceedings of the 3rd International Conference on New Media Development and Modernized Education NMDME 2023 which was held in a hybrid form from October 13th to 15th 2023 The conference topics include Educational Sciences Innovative Applications of Teaching Technology Modernized Vocational Education Digital Media Technology Digital Media Technology and Applications Virtual Technology and Intelligent Media Communication Computational Communication and Smart Media The conference provided a platform for discussing scientific research findings and cutting edge technologies in the fields of new media development and modernized education to encourage collaboration in the industrialization of academic achievements We invited specialists and intellectuals to attend the conference sharing their excellent contributions and perspectives in the

speeches We hope that the scientific attitudes and skills developed through research will encourage scholars worldwide to contribute to the development of knowledge generated by research Finally we would like to express our gratitude to the conference chair publication chairs technical program committee chairs local organizing chairs program committee chairs conference secretariat and conference sponsors for their financial support which made the successful organization of NMDME 2023 possible We hope that this conference will continue to be held in the coming years publishing more insightful articles with inspiring research

Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2020-04-01

Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor s Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www.routledge.com 9780367146511 **Journal of Educational Method** ,1928

Northwest Journal of Education ,1905 *Algebra: Themes, Tools, Concepts -- Teachers' Edition* Henri Picciotto, Anita Wah, 1994 *Your First Year As a High School Teacher* Lynne Marie Rominger, Suzanne Packard Laughrea, 2009-03-25
 Survive Thrive in the Classroom From Day One Teaching high school students is the toughest job you ll ever love Of course often it is an acquired love You must learn to manage your students education and play parent counselor police officer and mentor Wow Now relax it doesn t have to be overwhelming With a little preparation you can ensure that you and your students get the most out of your time in the classroom and enjoy it Full of real world advice and answers for the complex issues facing today s high school teachers this down to earth and witty book will teach you how to create an atmosphere of cooperation learning and respect within your classroom Use this helpful guide as your personal mentor to achieve a successful and satisfying career as a high school teacher Earn straight A s your first year by knowing how to Create an attention grabbing and interactive teaching environment Manage difficult students and unique teenage problems Communicate educate and have fun with your students Balance the demands of old school administrators and pushy parents Fairly assess grade and evaluate students Develop effective and engrossing lesson plans Straightforward up to date and engaging I ve seen a lot of resource books for new teachers and this is the best of the bunch Wendell Geis continuing education administrator University of California Davis The Sunday-school Times ,1889 **How We Think** Alan H. Schoenfeld, 2010-10-18 Teachers try to help their students learn But why do they make the particular teaching choices they do What resources do they draw upon What accounts for the success or failure of their efforts In *How We Think* esteemed scholar and mathematician Alan H Schoenfeld proposes a groundbreaking theory and model for how we think and act in the classroom and beyond Based on thirty years of research on problem solving and teaching Schoenfeld provides compelling evidence for a concrete approach that describes how teachers and individuals more generally navigate their way through in the moment decision making in well practiced domains Applying his theoretical model to detailed representations and analyses of teachers at work as well as of professionals outside education Schoenfeld argues that understanding and recognizing the goal oriented patterns of our day to day decisions can help identify what makes effective or ineffective behavior in the classroom and beyond *Purpose Driven Teacher* Joseph I. Monye PhD, 2023-06-25 *Purpose Driven Teacher* College and Career Readiness Mathematics Skills anticipates how to focus mathematics knowledge and problem solving skills amongst High school and College students in building conceptual representational and abstract mathematical thinking and discourse This book poses purposeful questions and answers to enable students build procedural fluency from their unique conceptual understanding of mathematical problem solving Inner City students and especially Minority students of African descent will find the psychology of this book especially useful **The Teaching of Junior High School Mathematics** David Eugene Smith, William David Reeve, 1927

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