

Exponents

A **power** is the product of multiplying a number by itself. It is represented as a **base number** and an **exponent**. The base number indicates what number is being multiplied, and the exponent indicates how many times the base number is to be multiplied.

$$\underset{\substack{\uparrow \\ \text{base}}}{3}^{\substack{\downarrow \\ \text{exponent}}}{2} = \underset{\substack{\uparrow \\ \text{factors}}}{3} \times 3 = 9$$

Squares

$$1^2 = 1 \times 1 = 1$$

$$2^2 = 2 \times 2 = 4$$

$$3^2 = 3 \times 3 = 9$$

$$4^2 = 4 \times 4 = 16$$

$$5^2 = 5 \times 5 = 25$$

$$6^2 = 6 \times 6 = 36$$

$$7^2 = 7 \times 7 = 49$$

$$8^2 = 8 \times 8 = 64$$

$$9^2 = 9 \times 9 = 81$$

$$10^2 = 10 \times 10 = 100$$

$$11^2 = 11 \times 11 = 121$$

$$12^2 = 12 \times 12 = 144$$

Exponential Form

$$5^3$$

Expanded (factors) Form

$$5 \times 5 \times 5$$

Word Form

five to the 3rd power

Standard Form

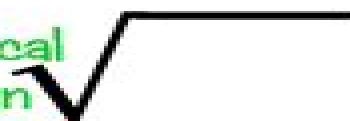
$$125$$

Any number raised to the zero power is always 1

Square Roots

Every positive number has 2 square roots. Finding the square root is the opposite or inverse operation of squaring a number. **The square root of a number is one of its two equal factors.** For example, 36 has two square roots, 6 & -6, because $6 \times 6 = 36$ and $-6 \times -6 = 36$.

radical sign



Square Roots

$$\sqrt{1} = \pm 1$$

$$\sqrt{4} = \pm 2$$

$$\sqrt{9} = \pm 3$$

$$\sqrt{16} = \pm 4$$

$$\sqrt{25} = \pm 5$$

$$\sqrt{36} = \pm 6$$

$$\sqrt{49} = \pm 7$$

$$\sqrt{64} = \pm 8$$

$$\sqrt{81} = \pm 9$$

$$\sqrt{100} = \pm 10$$

$$\sqrt{121} = \pm 11$$

$$\sqrt{144} = \pm 12$$

*The square root of 25, is 5

$$\sqrt{25} = 5$$

*The negative square root of 25, is -5

$$-\sqrt{25} = -5$$

$$\begin{aligned} 4^2 &= 16 \\ \sqrt{16} &= 4 \end{aligned}$$

Middle School Exponents And Square Roots Activities

C Cleary



Middle School Exponents And Square Roots Activities:

Algebra Activities from Many Cultures Beatrice Lumpkin,1997 Enhances understanding with 60 reproducible activities designed with the NCTM Standards in mind Demonstrates the applications of algebra in different cultures Develops critical thinking and problem solving skills with individual and group projects **Summer Bridge Activities Middle School** James Michael Orr,Rainbow Bridge Publishing,Francesca D'Amico,Spencer Livingston,1998-06 Summer activities for children moving from grade 7 to grade 8 along with instructions and advice for parents who will be supervising the activities

Teaching to the Math Common Core State Standards F. D. Rivera,2015-06-17 This is a methods book for preservice middle level majors and beginning middle school teachers It takes a very practical approach to learning to teach middle school mathematics in an emerging Age of the Common Core State Standards The Common Core State Standards in Mathematics CCSSM is not meant to be the official mathematics curriculum it was purposefully developed primarily to provide clear learning expectations of mathematics content that are appropriate at every grade level and to help prepare all students to be ready for college and the workplace A quick glance at the Table of Contents in this book indicates a serious engagement with the recommended mathematics underlying the Grade 5 through Grade 8 and traditional pathway Algebra I portions of the CCSSM first with issues in content practice assessment learning teaching and classroom management pursued next and in that order In this book we explore what it means to teach to the CCSSM within an alignment mindset involving content practice learning teaching and assessment The Common Core state content standards which pertain to mathematical knowledge skills and applications have been carefully crafted so that they are teachable learnable coherent fewer clearer and higher The practice standards which refer to institutionally valued mathematical actions processes and habits have been conceptualized in ways that will hopefully encourage all middle school students to engage with the content standards more deeply than merely acquiring mathematical knowledge by rote and imitation Thus in the CCSSM proficiency in content alone is not sufficient and so does practice without content which is limited Content and practice are both equally important and thus must come together in teaching learning and assessment in order to support authentic mathematical understanding This blended multisourced text is a getting smart book It prepares preservice middle level majors and beginning middle school teachers to work within the realities of accountable pedagogy and to develop a proactive disposition that is capable of supporting all middle school students in order for them to experience growth in mathematical understanding that is necessary for high school and beyond including future careers **Know It All! Grades 6-8 Math** Princeton Review,Diane Perullo,2004 Provides study skills and strategies to help students do well on standardize tests in mathematics Mathematics Teaching in the Middle School ,2009-02 *K-12 Mathematics Education In Israel: Issues And Innovations* Nitsa Movshovitz-hadar,2018-02-28 The book provides the reader with a multifaceted picture of mathematics education in Israel put into an international perspective where relevant It is intended to give an overview of a wide range of

topics covering issues such as raising and maintaining motivation search for excellence treatment of difficulties teacher education language issues minorities issues curriculum changes over the first 70 years of the state of Israel and many more This includes aspects of research and practice into the teaching and learning of mathematics innovation developments policy achievements and implementation with some international comparison as well Middle School Math, Course 3 McDougal Littell Incorporated,2004 **Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation **The Arithmetic Teacher** ,1992 **Mathematics Education In Korea - Vol. 1: Curricular And Teaching And Learning Practices** Jinho Kim,Joong Kwoen Lee,Mangoo Park,Inki Han,2012-10-08 This book will introduce the history and practices of mathematics education in Korea How it has been influenced from Japan America and other countries and has developed into the unique Korean style of mathematics education The editors have planned to include most of the topics researchers outside Korea want to know mathematics education in Korea Significant Changes and Trends in the Teaching of Mathematics Throughout the World Since 1910 ,1929 **Contemporary Guide in the Teaching of Junior High School Mathematics** Raleigh Schorling,John Phelps Everett,Walter Owen Shriner,1935 *20-Minute Learning Connection, California Middle School Edition* Douglas B. Reeves,2001 Parents of children attending school in California can help their child succeed in school with this guide that includes 250 learning activities aligned to state standards plus homework advice checklists information about state tests and tips for effective parent teacher communication **Secondary and Middle School Methods** Allan C. Ornstein,Thomas J. Lasley,Gayle Mindes,2005 Secondary and Middle School Methods prepares secondary school teachers and help experienced teachers improve their teaching and instruction by focusing on the methods and principles of teaching the how to approach Combining a broad approach of methodology from research to theory to practice this text helps the prospective teacher understand the essential methods and principles necessary for professional competence The authors also address current issues in today s society such as No Child Left Behind and teaching diverse learners and examine the effects of federal legislation on students and teachers In addition an assortment of activities tables and topics for discussion prepare the reader for future application to secondary school settings serving diverse populations of students **Scott Foresman-Addison Wesley Middle School Math** ,2002 *Instructor's Manual for Elementary and*

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