

Approximating Square Roots



Approximating Square Roots (to the nearest hundredth)

Approximate $\sqrt{27}$

Step 1: Determine the consecutive integers $\sqrt{27}$ is between.

$\sqrt{27}$ Irrational Number
 Lower Perfect Square $\swarrow \searrow$ Bigger Perfect Square
 Integer $\downarrow \downarrow$ Integer

Step 2: Simplify the following ratio to determine an approximate fraction.

$$\frac{\text{Irrational} - \text{Lower Perfect Square}}{\text{Bigger} - \text{Lower Perfect Square}}$$

$$\frac{\boxed{} - \boxed{}}{\boxed{} - \boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Step 3: Write a mixed number, then change the fraction to a decimal (rounding to the nearest hundredth).

$\sqrt{27} = \boxed{} \frac{\boxed{}}{\boxed{}} = \boxed{}$

Approximate $\sqrt{135}$

$\sqrt{135}$
 $\swarrow \searrow$
 $\boxed{} \quad \boxed{}$
 $\downarrow \quad \downarrow$
 $\boxed{} \quad \boxed{}$
 $\downarrow \quad \downarrow$
 $\boxed{} \quad \boxed{}$
 $\downarrow \quad \downarrow$
 $\boxed{} \quad \boxed{}$

$135 = \boxed{}$

$\sqrt{135} = \boxed{} \frac{\boxed{}}{\boxed{}} = \boxed{}$

Approximating Square Roots Name: _____ Date: _____

Show your work. Round answers to the nearest hundredth.

1 $\sqrt{63}$	2 $\sqrt{45}$
3 $\sqrt{176}$	4 $\sqrt{135}$
5 $\sqrt{2}$	6 $\sqrt{20}$



Interactive Notes + Worksheet

Estimating Square Roots Activity

Wheeler



Estimating Square Roots Activity:

Mathematics Activities for Teaching and Learning Jane Thompson Barnard, Ed R. Wheeler, 2002-09-18 **Abacus Yr6/P7: Teacher Cards** Ruth Mертtens, David Kirkby, 2001-02-19 Each unit in the New Abacus programme begins with whole class teaching All the direct teaching to introduce a concept is on the front of the Teacher Card the back has further teaching references to differentiated practical activities workbook or textbook pages and photocopy masters *Puzzling Algebra* Steve Hiner, 2014-09-06 This book was written to provide math teachers with supplemental resources they can use in their classrooms This book can also be used by students to improve their skills Tutorials are included with many of the activities so you can learn at your own pace Topics can be used for Alg 1 and 2 as well as Integrated Math I II and III Topics include order of operations solving many types of equations exponents mult divide scientific notation percentages distance formula Pythagorean Theorem area of triangles from determinants basic circles square roots mean median mode geometric mean box and whisker plots matrices cryptography and inverses plotting points graphing circles lines and parabolas long and synthetic division of polynomials FOIL Quadratic Formula logarithms factoring and the Binary number system **OLYMPIAD EHF MATH ACTIVITY BOOK CLASS 8** Dr. Sandeep Ahlawat, 2023-01-15 Activity Book for National Interactive Maths Olympiad NIMO other National International Olympiads Talent Search Exams based on CBSE ICSE GCSE State Board syllabus NCF NCERT Mastering Math Manipulatives, Grades 4-8 Sara Delano Moore, Kimberly Rimbey, 2021-10-21 Put math manipulatives to work in your classroom and make teaching and learning math both meaningful and productive Would you like to bring math learning to life and make it more concrete relevant and accessible to your students Do you wish you could do more with the manipulatives buried in your supply closet Do you want to more effectively use virtual manipulatives in your distance learning Whether physical or virtual commercial or home made manipulatives are a powerful learning tool to help students discover and represent mathematical concepts Mastering Math Manipulatives includes everything you need to integrate math manipulatives both concrete and virtual into math learning Each chapter of this richly illustrated easy to use guide focuses on a different powerful tool such as base ten blocks fraction manipulatives unit squares and cubes Cuisenaire Rods Algebra tiles and two color counters geometric strips and solids geoboards and others and includes a set of activities that demonstrate the many ways teachers can leverage manipulatives to model and reinforce math concepts for all learners It features Classroom strategies for introducing math manipulatives including commercial virtual and hand made manipulatives into formal math instruction Step by step instructions for over 70 activities that work with any curriculum including four color photos printable work mats and demonstration videos Handy charts that sort activities by manipulative type math topic domains aligned with standards and grade level appropriateness It s time to dive in and join in the journey toward making manipulatives meaningful so math learning is concrete profound and effective for your students Activities Manual for Elementary School Teachers - Mod Math Wheeler, 1995 This book was published exclusively with the goal of preparing

students to be future elementary school teachers This four color book is exactly the same as Wheeler and Wheeler s Modern Mathematics Ninth Edition with the following additions The preface was written directly with the goal of educating elementary school teachers NCTM Standards are included in the book s end papers and Reproductions of actual pages from four color elementary school textbooks have been added Guided by a team of reviewers and suggestions from more than 130 professors the authors have produced an important revision At the beginning of each section goals and objectives have been replaced by statements from the NCTM Standards Within each section the authors present the content examples problem sets and laboratory exercises that fulfill the philosophy and the direction suggested by the Standards In this edition Ruric Wheeler is joined by his son Ed as co author An activities manual for prospective elementary school teachers has been completely rewritten by a team of authors with many years of experience teaching elementary and middle school students In addition to a rich variety of activities it includes Talk to Teachers a section that discusses the significance of each activity in the growth and preparation of the young student

New National Framework Mathematics M. J. Tipler,2003 New National Framework Mathematics features extensive teacher support materials which include dedicated resources to support each Core and Plus Book The 7 Plus Teacher Planning Pack contains Teacher Notes for every chapter with a Self contained lesson plan for each of the units in the pupil books

Mathematics GLENCOE,1995

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Abstracts of Recent Published Material on Soil and Water Conservation ,1955 Abstracts for Dec 1954 issued in the Agricultural Research Service s series ARS 41

Glencoe Algebra 1 ,2001

Authentic Learning Activities: Number & Operation Brendan Kelly,2000

ARS 41 ,1960

Math and Nonfiction Jennifer M. Bay-Williams,Sherri L. Martinie,2008 Provides lessons that link mathematics with nonfiction Topics include collecting and analyzing data using proportional reasoning and exploring linear and exponential growth probability and relationships between two and three dimensional objects pi and more Each lesson includes an overview of the nonfiction title a discussion of the lesson s mathematical focus a description of the activity and samples of student work Provided by publisher

Glencoe Mathematics William Collins,1999

Teacher File Year 8/1 David Baker,2001 These resources provide invaluable support within the Key Maths series for all mathematics teachers whether specialists or non specialist experienced or new to the profession

Glencoe Algebra 1 Glencoe,1997-03

Arithmetic Edward Lee Thorndike,1920

TID. ,1960

Folens Maths Programme Susan Ball,Sue Briggs,Margaret Mackenzie,2003-05-09

Estimating Square Roots Activity Book Review: Unveiling the Power of Words

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