

# MATHEMATICS

*for Elementary School Teachers* 6e



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# Elementary Mathematics For Teachers

**Thomas H. Parker, Scott Baldrige**



## **Elementary Mathematics For Teachers:**

**Knowing and Teaching Elementary Mathematics** Liping Ma, 2010-03-26 Studies of teachers in the U S often document insufficient subject matter knowledge in mathematics Yet these studies give few examples of the knowledge teachers need to support teaching particularly the kind of teaching demanded by recent reforms in mathematics education **Knowing and Teaching Elementary Mathematics** describes the nature and development of the knowledge that elementary teachers need to become accomplished mathematics teachers and suggests why such knowledge seems more common in China than in the United States despite the fact that Chinese teachers have less formal education than their U S counterparts The anniversary edition of this bestselling volume includes the original studies that compare U S and Chinese elementary school teachers mathematical understanding and offers a powerful framework for grasping the mathematical content necessary to understand and develop the thinking of school children Highlighting notable changes in the field and the author s work this new edition includes an updated preface introduction and key journal articles that frame and contextualize this seminal work

**Elementary Mathematics for Teachers** Thomas H. Parker, Scott Baldrige, 2004 Textbook on numbers arithmetic and prealgebra for elementary school mathematics teachers Designed to be used with five Primary Mathematics books textbooks 3A 4A 5A 6A and workbook 5A all U S ed part of an elementary mathematics curriculum designed by Singapore s Ministry of Education and adapted for use in the U S

**Answers to Your Biggest Questions About Teaching Elementary Math** John J. SanGiovanni, Susie Katt, Latrenda D. Knighten, Georgina Rivera, 2021-09-09 Your guide to grow and learn as a math teacher Let s face it teaching elementary math can be hard So much about how we teach math today may look and feel different from how we learned it Today we recognize placing the student at the center of their learning increases engagement motivation and academic achievement soars Teaching math in a student centered way changes the role of the teacher from one who traditionally delivers knowledge to one who fosters thinking Most importantly we must ensure our practice gives each and every student the opportunity to learn grow and achieve at high levels while providing opportunities to develop their agency and authority in the classroom which results in a positive math identity Whether you are a brand new teacher or a veteran if you find teaching math to be quite the challenge this is the guide you want by your side Designed for just in time learning and support this practical resource gives you brief actionable answers to your most pressing questions about teaching elementary math Written by four experienced math educators representing diverse experiences these authors offer the practical advice they wish they received years ago from lessons they ve learned over decades of practice research coaching and through collaborating with teams teachers and colleagues especially new teachers every day Questions and answers are organized into five areas of effort that will help you most thrive in your elementary math classroom 1 How do I build a positive math community 2 How do I structure organize and manage my math class 3 How do I engage my students in math 4 How do I help my students talk about math 5 How do I know what my

students know and move them forward Woven throughout you ll find helpful sidebar notes on fostering identity and agency access and equity teaching in different settings and invaluable resources for deeper learning The final question Where do I go from here offers guidance for growing your practice over time Strive to become the best math educator you can be your students are counting on it What will be your first step on the journey

**Teachers' Professional Development and the Elementary Mathematics Classroom** Sophia Cohen,2004-07-13 This book illustrates the experiences of elementary school teachers across one year s time as they participated in a teacher development seminar focused on mathematics and as a result changed their beliefs their knowledge and their practices It explores these experiences as a means of understanding the learning that takes a teacher from a more traditional teaching practice to one that is focused on the ideas and understandings that students and teachers have of the subject matter The work emerges from and reports on a unique data set from a two year study of teacher learning that was funded by the Spencer and MacArthur foundations The teachers whose work is at the center of this study were participants in the Developing Mathematical Ideas seminar DMI a mathematics teacher development seminar for elementary school teachers This seminar is one example of intensive domain specific professional development In this seminar teachers study elementary mathematics content to deepen their own understanding of it they study the development among children of the ideas central to elementary mathematics and they experience a teaching and learning environment consistent with the pedagogy envisioned by the National Council for Teachers of Mathematics Principles and Standards for School Mathematics The seminar is a nationally available teacher development curriculum thus interested educators can gain access to the resources necessary to offer similar seminars in their own communities Teachers Professional Development and the Elementary Mathematics Classroom Bringing Understandings to Light will be widely interesting to a broad audience including mathematics teacher educators teacher education researchers policymakers and classroom teachers It will serve well as a text in a range of graduate courses dealing with teacher cognition knowledge for teaching mathematics methods psychology of learning and pedagogical theory

Teaching by Design in Elementary Mathematics, Grades 4-5 Melinda Leong,Jennifer Stepanek,Linda Griffin,2010-12 This professional learning programme for Key Stage 3 mathematics teaching is grounded in the latest research on the characteristics of effective professional development The materials help teachers deepen their content knowledge for important mathematical concepts in their grade increase their understanding of how students learn these mathematical ideas use their knowledge to develop effective lessons and improve instruction enhance their collaboration skills The mathematical content of Teaching by Design in Mathematics matches content topics in number and operations identified for each grade by the NCTM Curriculum Focal Points The culminating activity of the programme is the co creation of a prototype lesson which is taught to students by team members the team then investigates the impact of the lesson on student learning The cycle of investigating planning teaching observing debriefing and revising a lesson together contributes to a climate of continuous

professional learning      **Elementary Mathematics for Teachers** Donald F. Devine, Jerome E. Kaufmann, 1983-01-01 An introduction to teaching elementary and junior high school mathematics it incorporates recommendations of the NCTM Focuses on the how and why of each mathematical topic with stress on good pedagogy and development of problem solving skills The Second Edition contains a new chapter on the Logo computer language References to NCTM standards now appear in every chapter and there are many new problems      *Elementary Mathematics Specialists* Maggie B. McGatha, Nicole R. Rigelman, 2017-02-01 Elementary mathematics specialists are teacher leaders who are responsible for supporting effective PK 6 mathematics instruction and student learning The Association of Mathematics Teacher Educators AMTE the Association of State Supervisors of Mathematics the National Council of Supervisors of Mathematics and the National Council of Teachers of Mathematics in a 2010 joint position paper on Elementary Mathematics Specialists EMSs all advocate for the use of EMSs to support the teaching and learning of mathematics The specific roles and expectations of EMSs will vary according to the needs of each setting but their expertise and successful experience at the elementary level is critical p 1 Elementary Mathematics Specialists Developing Refining and Examining Programs that Support Mathematics Teaching and Learning is AMTE s latest resource supporting the important work of EMSs It has five sections related to the preparation and professional development of EMSs a Overview and Current State of Affairs b Models of EMS Program Development c Supporting EMSs in the Field d The Mathematics Specialist Research and e Future Directions The book provides support to EMS practitioners program providers developers and researchers seeking to answer important questions about how to prepare Mathematics Specialists support them in the field and research their effectiveness      Common Mistakes in Teaching Elementary Math—And How to Avoid Them Fuchang Liu, 2017-03-27 Learn the most effective ways to teach elementary math no matter how much experience you have with the subject In this book Fuchang Liu takes you through many common mistakes in math instruction and explains the misunderstandings behind them He points out practices that should be avoided helping you to adjust your lessons so that all students can achieve success You ll discover how to Increase your confidence with core math principles and reasoning Set your students on the path toward eventually developing more complex math skills Improve student achievement by approaching problems in logical yet creative ways Overcome common challenges faced by students and teachers Teach problem solving for different learning styles Every chapter reconsiders well established ways of teaching all areas of elementary math from addition and subtraction to statistics and graphs Helpful examples and tips are scattered throughout the book offering revisions to the way these topics are often presented in the classroom Also included are group study ideas for principals and instructional coaches so your school or district can work on the book together With this practical guide you ll be ready to help students truly develop their math understanding

**Teaching by Design in Elementary Mathematics, Grades 2-3** Jennifer Stepanek, Melinda Leong, Linda Griffin, Lisa Lavelle, 2010-11-19 Strengthen your mathematics lessons through collaborative planning Teaching by Design in Elementary

Mathematics is a series of comprehensive professional development guides that help teachers investigate how students learn. Grounded in the latest research, this book is one of three volumes focused on grade-appropriate number and operations topics aligned with the Common Core State Standards. The capstone activity of each book guides the group through the co-creation and implementation of a prototype lesson. The teacher teams then evaluate the impact of the lesson on student learning and work together to revise it for maximum effectiveness. Through the process, teachers develop deeper content knowledge of important mathematical concepts, improved understanding of how students learn these mathematical ideas, a stronger foundation for developing effective lessons and improving instruction, enhanced collaboration skills. Each volume includes a large assortment of reproducible handouts as well as built-in facilitation notes. Teachers will also find helpful resources that address the issue of finding time for school-based professional development and teacher collaboration.

**Mathematics for Elementary School Teachers: A Process Approach** Mark A. Freitag, 2013-01-01 Freitag's MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS: A PROCESS APPROACH was developed using the five Content Standards from the NCTM Principles and Standards for School Mathematics and the Common Core State Standards for Mathematics. Traditionally, books for pre-service elementary teachers have focused on problem solving. However, problem solving is not the only process through which mathematics is learned. It is also learned through mathematical reasoning, communication, representation, and connections. Recent trends in mathematics education now advocate implementing all five processes as a vital part of learning and doing mathematics. Consequently, you need to have concrete experiences with these processes that you will be required to teach. The goal of this book is to treat each of the processes equitably by using an approach in which the five processes serve as the central pedagogical theme. Most of the examples, exercises, and activities are designed to either model the processes or to directly engage you in working with them. As a result, you will not only come to understand the different processes but also appreciate them as an integral to learning and doing mathematics. If this broader view can be instilled, you are more likely to give your students a more well-rounded and holistic view of mathematics once you enter the classroom. The content of the book is directly related to the mathematics that is taught in grades K-8. The purpose is not to reteach elementary mathematics. Rather, the intent is to look at the content from a theoretical or generalized point of view so that you can better understand the concepts and processes behind the mathematics you will teach. In short, the book focuses on the why behind the mathematics in addition to the how. Available with InfoTrac Student Collections <http://www.cengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Elementary Mathematics Curriculum Materials** Janine T. Remillard, Ok-Kyeong Kim, 2020-03-16 The book presents comparative analyses of five elementary mathematics curriculum programs used in the U.S. from three different perspectives: the mathematical emphasis, the pedagogical approaches, and how authors communicate with teachers. These perspectives comprise a framework for examining what curriculum materials are comprised of, what is

involved in reading and interpreting them and how curriculum authors can and do support teachers in this process Although the focus of the analysis is 5 programs used at a particular point in time this framework extends beyond these specific programs and illuminates the complexity of curriculum materials and their role in teaching in general Our analysis of the mathematical emphasis considers how the mathematics content is presented in each program in terms of sequencing the nature of mathematical tasks cognitive demand and ongoing practice and the way representations are used Our analysis of the pedagogical approach examines explicit and implicit messages about how students should interact with mathematics one another the teacher and the textbook around these mathematical ideas as well as the role of the teacher In order to examine how curriculum authors support teachers we analyze how they communicate with teachers and what they communicate about including the underlying mathematics noticing student thinking and rationale for design elements The volume includes a chapter on curriculum design decisions based on interviews with curriculum authors

**Teaching Elementary Mathematics to Struggling Learners** Bradley S. Witzel, Mary E. Little, 2015-12-29 Packed with effective instructional strategies this book explores why certain K 5 students struggle with math and provides a framework for helping these learners succeed The authors present empirically validated practices for supporting students with disabilities and others experiencing difficulties in specific areas of math including problem solving early numeracy whole number operations fractions geometry and algebra Concrete examples easy to implement lesson planning ideas and connections to state standards in particular the Common Core standards enhance the book s utility Also provided is invaluable guidance on planning and delivering multi tiered instruction and intervention

*Answers to Your Biggest Questions about Teaching Elementary Math* John J Sangiovanni, Susie Katt, Latrenda Duretta Knighten, Georgina Rivera, 2021-10-05 Your guide to grow and learn as a math teacher Let s face it teaching elementary math can be hard So much about how we teach math today may look and feel different from how we learned it Today we recognize placing the student at the center of their learning increases engagement motivation and academic achievement soars Teaching math in a student centered way changes the role of the teacher from one who traditionally delivers knowledge to one who fosters thinking Most importantly we must ensure our practice gives each and every student the opportunity to learn grow and achieve at high levels while providing opportunities to develop their agency and authority in the classroom which results in a positive math identity Whether you are a brand new teacher or a veteran if you find teaching math to be quite the challenge this is the guide you want by your side Designed for just in time learning and support this practical resource gives you brief actionable answers to your most pressing questions about teaching elementary math Written by four experienced math educators representing diverse experiences these authors offer the practical advice they wish they received years ago from lessons they ve learned over decades of practice research coaching and through collaborating with teams teachers and colleagues especially new teachers every day Questions and answers are organized into five areas of effort that will help you most thrive in your elementary

math classroom 1 How do I build a positive math community 2 How do I structure organize and manage my math class 3 How do I engage my students in math 4 How do I help my students talk about math 5 How do I know what my students know and move them forward Woven throughout you ll find helpful sidebar notes on fostering identity and agency access and equity teaching in different settings and invaluable resources for deeper learning The final question Where do I go from here offers guidance for growing your practice over time Strive to become the best math educator you can be your students are counting on it What will be your first step on the journey

**Elementary Mathematics for Teachers** John L. Kelley,Donald Richert,1970 **Teachers' Professional Development and the Elementary Mathematics Classroom** Sophia R. Cohen,2004 Outlines strategies and techniques for teaching mathematical concepts and skills at the elementary level

**Research Advances in the Mathematical Education of Pre-service Elementary Teachers** Gabriel J.

Stylianides,Keiko Hino,2017-11-16 This book examines new trends and developments in research related to the mathematical education of pre service elementary teachers and explores the implications of these research advances for theory and practice in teacher education The book is organized around the following four overarching themes pre service teachers mathematics content and mathematics specific pedagogical preparation professional growth through activities and assessment tools used in mathematics teacher preparation programs pre service mathematics teachers knowledge and beliefs and perspectives on noticing in the preparation of elementary mathematics teachers Including contributions from researchers working in 11 different countries the book offers a forum for discussing and debating the state of the art regarding the mathematical preparation of pre service elementary teachers By presenting and discussing the findings of research conducted in different countries the book offers also opportunities to readers to learn about varying teacher education practices around the world such as innovative practices in advancing or assessing teachers knowledge and beliefs similarities and differences in the formal mathematics education of teachers types of and routes in teacher education and factors that can influence similarities or differences Discrete Mathematics For Teachers Ed Wheeler,Jim

Brawner,2010-06-01 Originally Published by Houghton Mifflin Company 2004 There is a national consensus that teachers who teach middle grades and elementary mathematics need deeper and broader exposure to mathematics in both their undergraduate and in their graduate studies The Mathematics Education of Teachers published by The Conference Board on the Mathematical Sciences recommends 21 semester hours of mathematics for prospective teachers of middle grades mathematics In several states pre service teachers preparing to teach middle grades mathematics and pre service teachers preparing to teach elementary school must complete 6 9 semester hours of mathematics content at the junior senior level Graduate schools across the nation have developed special programs for educators who specialize in teaching mathematics to elementary school children and to middle grades students However there is a paucity of text materials to support those efforts at junior senior level and graduate level courses Faculty members must choose to teach yet another course out of one



of the Mathematics for Teachers texts that have formed the basis of the curriculum for the last two decades These texts tend to treat a very limited set of topics on a somewhat superficial level Alternatively faculty members can use mathematics textbooks written primarily for students majoring in mathematics or the sciences Neither the topic choice nor the pedagogical style of these texts is optimal for pre service and in service teachers of middle grades and elementary mathematics Discrete Mathematics for Teachers is a text designed to fill this void The topic is right Discrete mathematics provides a rich and varied source of problems for exploration and communication expands knowledge of mathematics in directions related to elementary and middle school curricula and is easily presented using our best understanding of the ways that mathematics is learned and taught The presentation is right In the spirit of NCTM's Principles and Standards for School Mathematics topics are presented with careful attention to the best traditions of problem solving reasoning and proof communication connections with other disciplines and other areas of mathematics and varied modes of representation

Developing Mathematical Proficiency for Elementary Instruction Yeping Li, Roger E. Howe, W. James Lewis, James J. Madden, 2021-04-23 The need to improve the mathematical proficiency of elementary teachers is well recognized and it has long been of interest to educators and researchers in the U S and many other countries But the specific proficiencies that elementary teachers need and the process of developing and improving them remain only partially conceptualized and not well validated empirically To improve this situation national workshops were organized at Texas A M University to generate focused discussions about this important topic with participation of mathematicians mathematics educators and teachers Developing Mathematical Proficiency for Elementary Instruction is a collection of articles that grew out of those exciting cross disciplinary exchanges Developing Mathematical Proficiency for Elementary Instruction is organized to probe the specifics of mathematical proficiency that are important to elementary teachers during two separate but inter connected professional stages as pre service teachers in a preparation program and as in service teachers teaching mathematics in elementary classrooms From this rich and inspiring collection readers may better understand and possibly rethink their own practices and research in empowering elementary teachers mathematically and pedagogically as educators or researchers

**Beyond Classical Pedagogy** Terry Wood, Barbara Scott Nelson, Janet E. Warfield, 2014-04-04 The emergence of the National Council of Teachers of Mathematics Standards in 1989 sparked a sea change in thinking about the nature and quality of mathematics instruction in U S schools Much is known about transmission forms of mathematics teaching and the influence of this teaching on students learning but there is still little knowledge about the alternative forms of instruction that have evolved from the recent widespread efforts to reform mathematics education Beyond Classical Pedagogy Teaching Elementary School Mathematics reports on the current state of knowledge about these new instructional practices which differ in significant ways from the traditional pedagogy that has permeated mathematics education in the past This book provides a research based view of the nature of facilitative teaching in its relatively mature form along with opposing views

and critique of this form of pedagogy The focus is on elementary school mathematics classrooms where the majority of the reform based efforts have occurred and on the micro level of teaching classroom interaction as a source for revealing the complexity involved in teaching teachers learning and the impact of both on children s learning The work in elementary mathematics teaching is situated in the larger context of research on teaching Research and insights from three disciplinary perspectives are presented the psychological perspective centers on facilitative teaching as a process of teachers learning the mathematical perspective focuses on the nature of the mathematical knowledge teachers need in order to engage in this form of teaching the sociological perspective attends to the interactive process of meaning construction as teachers and students create intellectual communities in their classrooms The multidisciplinary perspectives presented provide the editors with the necessary triangulation to provide confirming evidence and rich detail about the nature of facilitative teaching Audiences for this book include scholars in mathematics education and teacher education teacher educators staff developers and classroom teachers It is also appropriate as a text for graduate courses in mathematics education teacher education elementary mathematics teaching methods and methods of research in mathematics education

**The How and Why of Teaching Elementary Mathematics** Robert P. Hunting, 2014-03-01 The first edition of The How and Why of Teaching Elementary Mathematics is a resource of over 280 questions and answers spanning a range of topics central to successful and effective mathematics teaching It represents all I know and some things I didn t know based in large part on decades of experience providing training courses workshops and lectures to elementary teachers and teachers to be in mathematics curriculum learning teaching and assessment both in Australia and the United States Content is grouped into 13 broad topics Manipulatives Aids and Concrete Materials Attitudes Beliefs and Culture Chance and Data Assessment and Learning Theory Early Number Leading to Place Value Geometry Measurement Number facts and Basic Operations Whole Number Computation Fractions Decimals Ratio and Proportion Number Systems Principles and Number Sense Pattern Problem Solving The core audience for this book includes practicing elementary teachers teachers in training and mathematics teacher educators Parents and carers interested in detailed explanations for methods of mathematics teaching used in modern elementary classrooms would also benefit from having access to this resource

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