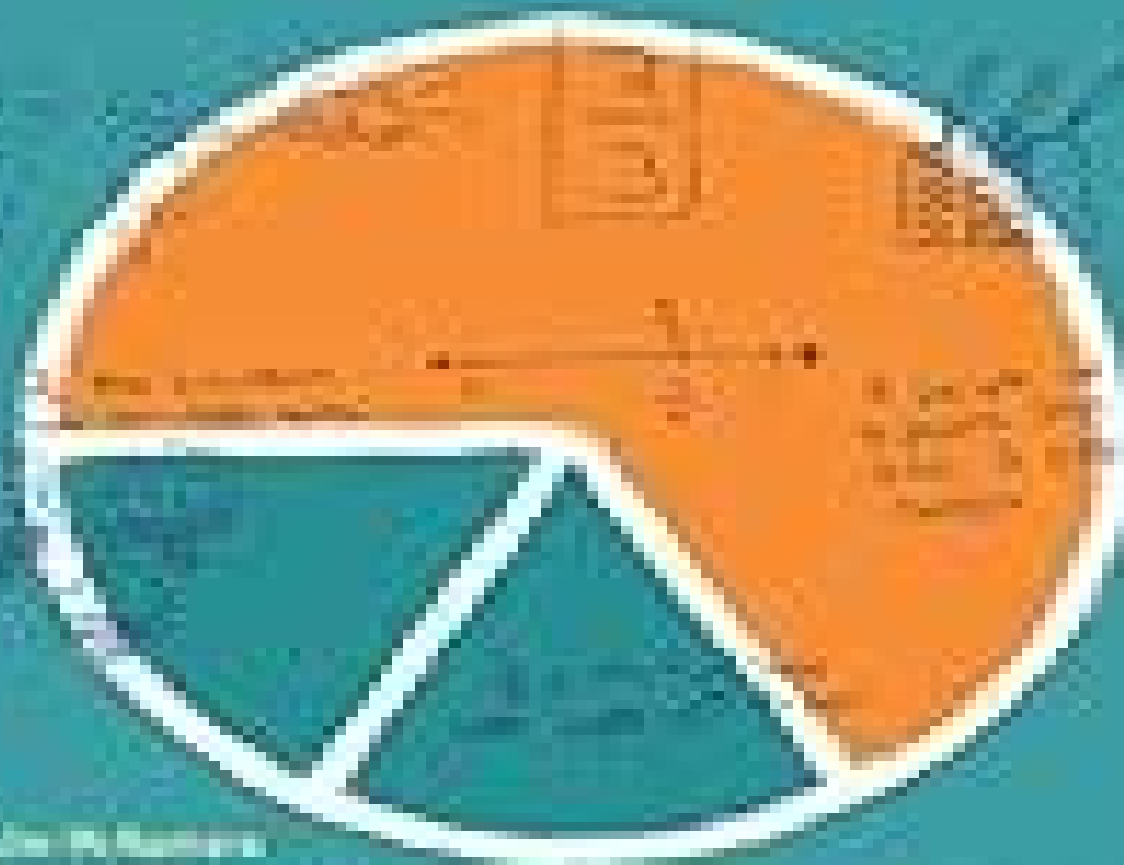


# BEYOND PIZZAS & PIES

LEVEL  
3-5

10 Essential Strategies for Improving Fraction Sense



Johnnie Williams  
Mathematics 3-5 Curriculum

# Beyond Pizzas And Pies 10 Essential Strategies For Supporting Fraction Sense Grades 3 5

**Julie McNamara, Meghan M.  
Shaughnessy**



## **Beyond Pizzas And Pies 10 Essential Strategies For Supporting Fraction Sense Grades 3 5:**

Beyond Pizzas & Pies Julie McNamara, Meghan M. Shaughnessy, 2010 This resource combines current research and practical strategies to support teachers in understanding and addressing the most common misconceptions that students have about fractions and presents opportunities to help students investigate discuss revise expand and refine their understanding of fractions Includes reproducibles bibliography and index      Uncomplicating Fractions to Meet Common Core Standards in Math, K-7 Marian Small, 2014 The Common Core State Standards for Mathematics challenges students to become mathematical thinkers not just mathematical doers In her new resource professional developer Marian Small shows teachers how to uncomplicate the teaching of fractions by focusing on the most important fraction ideas that students need to grasp The book is organized by grade level beginning with Grade 1 where the first relevant standard is found in the geometry domain and ending with Grade 7 where the focus is on operations with rational numbers and proportional thinking

*Common Denominators* Jennifer A. Lenhardt, 2024-03-26 Engage students in learning mathematics while cultivating a sense of belonging This helpful guide for secondary mathematics teachers shows you how to shape equitable classrooms by evaluating beliefs and practices that keep students and teachers stuck Research backed strategies and personal stories illustrate effective ways to resolve unproductive power dynamics promote emotional literacy and create a classroom environment conducive to optimal learning This book will help secondary mathematics teachers Develop strategies to discern the reasons students are struggling with mathematics Learn sustainable methods for perceiving unasked questions and target solutions focused on underlying needs Navigate challenging classroom behavior Cultivate a supportive classroom environment and reframe zero sum interactions with students Evaluate traditional grading and assessments and reform current practices to align with research based best practice and students best interests Contents Introduction Teacher Where You From Part 1 What Our Students Say to Us Chapter 1 I Don t Have a Pencil Chapter 2 When Am I Ever Going to Use This Chapter 3 Not Today Ms Lenhardt Chapter 4 I m Always in Trouble Chapter 5 I m Not a Math Person Part 2 What We Say to One Another Chapter 6 I Don t Give Grades My Students Earn Them Chapter 7 If Only Students Knew Their Facts Chapter 8 I Have 250 Students Every Semester I Can t Possibly Epilogue Appendix A Research Influences Appendix B

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*Helping Children Learn Mathematics, 5th Australian Edition* Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2025-10-10

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

**Classroom-Ready Number Talks for Third, Fourth and Fifth Grade Teachers** Nancy Hughes, 2018-03-12

A huge collection of ready to use number talks that make math concepts easier for students to learn Whether you re new to number talks or have been using them in your classroom for years this book makes it easier than ever for your students to experience this exciting teaching method Instead of trying to come up with a new number talk every day simply select one of the hundreds of great offerings provided in this book With chapters on addition subtraction multiplication division fractions and decimals Classroom Ready Number Talks for 3rd 4th and 5th Grade Teachers includes Grade level specific strategies Number talk how tos Visual and numerical examples Scaffolding suggestions Common core alignments Questions to build

understanding With these ready to use number talks you ll reduce time spent lesson planning and enjoy more time discussing math with your students It s sure to create a more engaging environment in your classroom and increase student comprehension of math concepts and how numbers function in the world around them *Beyond Pizzas & Pies* Julie McNamara, Meghan M. Shaughnessy, 2022 This resource combines current research and practical strategies to support teachers in understanding and addressing the most common misconceptions that students have about fractions and presents opportunities to help students investigate discuss revise expand and refine their understanding of fractions Includes reproducibles bibliography and index c Provided by publisher **Popular Mechanics**, 2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Beyond Pizzas & Pies, Second Edition: 10 Essential Strategies for Supporting Fraction Sense** Julie McNamara, Meghan Shaughnessy, 2022-05-27 Beyond Pizzas Pies is all about building a foundational understanding of fractions This book helps teachers and students understand fractions as numbers including the use of equivalency and thinking about benchmark numbers so that when students start to compute with fractions see the companion volume Beyond Invert Multiply they have a solid foundation You ll find Classroom Scenarios that address common challenges students and teachers encounter as they acquire an understanding of fractions What s the Math sections intended to clarify the mathematics What s the Research insights that show why that s the way we ve always done things might not be the most successful approach Classroom Activities with friendly step by step instructions and video clips demonstrating how to teach the concepts Reproducibles that are available in a downloadable format Study Questions at the end of each chapter that encourage readers to set concrete goals for implementing what they ve read This resource features 30 streaming video clips filmed in actual classrooms so you can see this work in action *Beyond Invert and Multiply, Grades 3-6* Julie McNamara, 2015 This resource builds on the foundational understandings that are described in Beyond Pizzas and Pies 10 Essential Strategies for Supporting Fraction Sense and applies them to situations involving fraction computation The eight stand alone chapters are organized within the same friendly easily accessible framework as Beyond Pizzas and Pies Each chapter offers classroom activities for investigating the meaning of fractions fractions as numbers fraction addition and subtraction fraction multiplication and division and classroom discussions on fractions Activities are connected to the Common Core State Standards and include reproducibles The accompanying DVD brings to life many of the activities in the book featuring more than 30 authentic classroom video clips *Beyond Invert & Multiply: Making Sense of Fraction Computation* Julie McNamara, 2022-05-27 Beyond Invert Multiply paves the way for success with fraction computation This book builds on the foundational understandings that are described in Beyond Pizzas Pies 10 Essential Strategies for Supporting Fraction Sense and applies them to situations involving fraction computation You ll find Classroom Scenarios that

address common challenges students and teachers encounter as they learn to operate with fractions What s the Math sections intended to clarify the mathematics What s the Research insights that show why that s the way we ve always done things might not be the most successful approach Classroom Activities with friendly step by step instructions and video clips demonstrating how to teach the concepts Reproducibles that are available in a downloadable format Study Questions at the end of each chapter that encourage readers to set concrete goals for implementing what they ve read This resource features more than 30 streaming video clips filmed in actual classrooms so you can see this work in action When I see teachers and they talk to me about how much Beyond Pizzas Pies has been a great support to them the next question is usually When are you going to author a book about computation My students are starting to have foundational knowledge of fractions but they really have struggles with computation In answer to teachers needs I m excited to welcome you to Beyond Invert Multiply Julie McNamara author of Beyond Invert Multiply and coauthor of Beyond Pizzas Pies

**Teaching Fractions and Ratios for Understanding** Susan J. Lamon, 2006-08-15 This popular text addresses the urgent need for curriculum materials that cross traditional boundaries to include many of the elements that are integrated in the teaching learning enterprise mathematics content teacher understanding student thinking teaching methods instructional activities and assessment The book pushes readers beyond the limits of their current understanding of rational numbers challenging them to refine and explain their thinking without falling back on rules and procedures they have relied on throughout their lives Written in a conversational and easy to understand style this is not a textbook as much as it is a resource book An underlying assumption is that facilitating teacher understanding using the same questions and activities that may be used with children is one way to help teachers build the comfort and confidence they need to begin talking to children about complex ideas Unlike a textbook that is used to study formal theory and then discarded when it comes to putting ideas into practice the many problems and activities included to facilitate teacher learning are valuable resources for use in elementary and middle school classrooms Changes in the second edition include even more student work incorporated in every chapter discussion of the connectivity between the topics addressed in the book and the elementary and middle school mathematics curricula an increased emphasis on measurement expansion of some topics including number sense percent scale factors similarity and linear graphs clarification of the characteristics of ratio and proportions and how to use these to generate discussion with children and content related interview questions for exploring children s thinking This book is a valuable resource for researchers and curriculum developers in mathematics education pre service and in service teachers of mathematics those involved in the mathematical and pedagogical preparation of mathematics teachers and graduate students in mathematics education The methods and activities it includes have been tested with students in grades 3 8 and with pre service and in service teachers and other adults This text is accompanied by MORE a supplement that is not merely an answer key but a resource that includes in depth discussions of all the problems in the text develops and extends discussion of the issues

teaching problems and other considerations raised in the chapters and contains additional problems with and without solutions that instructors may find helpful for assessment purposes

### **Putting Essential Understanding of Fractions**

**Into Practice in Grades 3-5** Kathryn Bouchard Chval, John Lannin, Dusty Jones, 2013 Do your students suppose that  $\frac{1}{3}$  is greater than  $\frac{1}{2}$  since 3 is greater than 2 Do they believe that having halves means having two and only two congruent pieces of a whole What tasks can you offer what questions can you ask to determine what your students know or don't know and move them forward in their thinking This book focuses on the specialised pedagogical content knowledge that you need to teach fractions effectively in grades 3-5 The authors demonstrate how to use this multifaceted knowledge to address the big ideas and essential understandings that students must develop for success with fractions not only in their current work but also in higher level mathematics and a myriad of real world contexts Explore rich research based strategies and tasks that show how students are reasoning about and making sense of fractions Use the opportunities that these and similar tasks provide to build on their understanding while identifying and correcting misunderstandings that may be keeping them from taking the next steps in learning

**Unpacking Fractions** Monica Neagoy, 2017-03-10 For years the teaching and learning of fractions has been associated with rote memorization But this mechanical approach to instruction which strips students of an ability to reason or make sense of math has resulted in a failure of understanding Author Monica Neagoy drawing on decades of research studies evidence from teacher practice and 25 years of experience working around the world with teachers students and parents addresses seven big ideas in the teaching and learning of fractions in grades 2-6 Each idea is supported by a vignette from a real classroom common misconceptions a thorough unpacking of productive mathematical thinking and several multistep and thought provoking problems for teachers to explore She offers three fundamental reasons why it's imperative for us to take a closer look at how we teach fractions Fractions play a key role in students feelings about mathematics Fractions are fundamental to school math and daily life Fractions are foundational to success in algebra While a solid grounding in algebra is necessary for a STEM career the worthy goal of algebra for all will not be possible until fractions for all is a reality Unpacking Fractions provides teachers with concrete strategies for achieving that reality in short helping all students gain the knowledge they need to feel at ease with fractions

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