

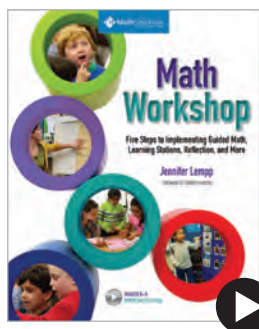
**Inspire a Culture of Math Achievement**

PRE-K-12 PROFESSIONAL RESOURCES

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### Math Workshop: Five Steps to Implementing Guided Math, Learning Stations, Reflection, and More

Jennifer Lempp

Successfully implement the transformational math workshop model of instruction through five accessible, manageable steps:

- Step 1: Understand Math Workshop
- Step 2: Prepare Your Students for Math Workshop
- Step 3: Decide Your Math Workshop Structure
- Step 4: Facilitate Your Math Workshop
- Step 5: Reflect on and Refine Your Math Workshop

Educators are invited to embrace this resource as their own personal “instructional coach,” first exploring what the author refers to as “three buckets” that need to be in place for a highly successful math workshop:

- Classroom Arrangement
- Routines and Procedures
- Mathematics Community

The resource then offers “Twenty Days to a Classroom Culture That Works,” which includes twenty minilessons that support the communication and practice of expectations surrounding the workshop model. From there, it explores three classroom-tested math workshop structures, providing practical ideas for routines, focus lessons, guided math groups, learning stations, and reflections so you can get started with math workshop in your classroom today.

#### Streaming Video Clips

The online video clips invite you inside K–5 classrooms for a seeing-is-believing look at math workshop in action. Seeing clips of actual teachers and students engaged in math workshop is the next best thing to observing the model in a classroom. Templates, tools, and ideas are included and available in downloadable format.

**ISBN: 978-1-935099-61-1**

**Grades K–5 233 pages \$69.95**

#### Math Workshop Course and Coaching

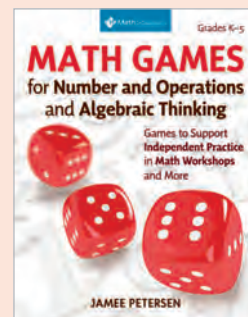
See page 17 for more information.

Learn more about Math Workshop:

[www.mathsolutions.com/mathworkshop](http://www.mathsolutions.com/mathworkshop)

877.234.7323

### Math Workshop Related Resources:



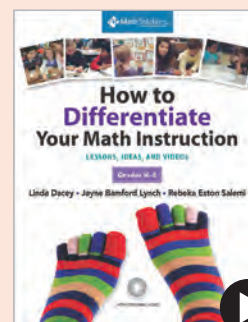
### Math Games for Number and Operations and Algebraic Thinking: Games to Support Independent Practice in Math Workshops and More

Jamee Petersen

This dynamic collection of more than 30 math games supports students’ learning of number in math workshops. Games include reproducibles and are correlated to the Common Core State Standards.

**ISBN: 978-1-935099-43-7**

**Grades K–5 304 pages \$36.95**



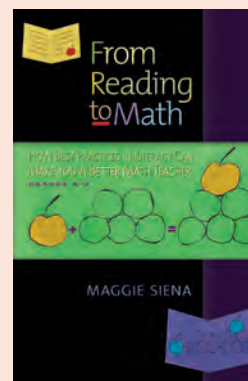
### How to Differentiate Your Math Instruction: Lessons, Ideas, and Videos

Linda Dacey, Jayne Bamford Lynch, and Rebeka Eston Salemi

How can teachers meet the growing diversity of learning needs in their classrooms? Furthermore, how do teachers meet this challenge in the midst of increasing pressures to master specified content? This resource shares classroom practices that help all students be successful. It features 21 streaming video clips that illustrate how everything from menus and tiered tasks to math workshops and multiple intelligences centers can be carried out in the classroom.

**ISBN: 978-1-935099-40-6**

**Grades K–5 384 pages \$72.95**



### From Reading to Math: How Best Practices in Literacy Can Make You a Better Math Teacher

Maggie Siena

Are your students engaged and motivated to read and write but hesitant during math instruction? Do you want your students to be as excited about math as they are about literacy? This unique resource explores how best practices for teaching reading and writing can help you become a better math teacher.

**ISBN: 978-1-935099-04-8**

**Grades K–5 168 pages \$27.95**



## Give Me Five! Five Coach-Teacher-Principal Collaborations That Promote Mathematics Success

Janice Bradley and Dana Cargill

This resource provides the guidance and tools necessary to implement five coach-teacher-principal collaborations that have improved mathematics instruction for hundreds of students. The video clips and interviews invite you inside schools for a “seeing is believing” look at math coaches, teachers, and principals collaborating in action. Includes connections to the Common Core State Standards for Mathematics.

**ISBN: 978-1-935099-39-0**

**Grades K–5    240 pages    \$69.95**



**COMING SOON!**

## It Makes Sense! Using Number Paths and Number Lines to Build Number Sense

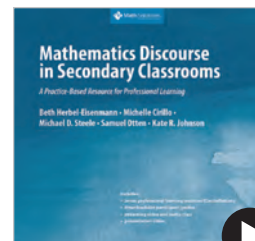
Ann Carlyle

This collection of lessons and games promotes the use of number paths and number lines to help students develop the skills they need to become flexible and fluent problem solvers, as well as meet the requirements of many state standards.

**ISBN: 978-1-935099-51-2**

**Grades K–2    Pages TBD    \$36.95**

See page 10 for other books in this series.



## Mathematics Discourse in Secondary Classrooms

Beth Herbel-Eisenmann, Michelle Cirillo,  
Michael D. Steele, Samuel Otten, Kate R. Johnson

Built from research-based frameworks, this powerful professional learning program provides groups of participants with opportunities to grapple with important ideas about mathematics discourse in an effort to support all students to engage in richer, deeper discourse that positively impacts their learning of mathematics and their identities as mathematics learners.

Organized for both novice and experienced professional learning facilitators, the program features the following components:

## Facilitator's Guide

The more than 500-page Facilitator's Guide offers seven professional learning modules, called Constellations. Each is organized as a set of case-based, practice-based activities providing 30 to 40 hours of experiences.

## Participant Guides

Each Constellation offers a participant guide in a downloadable, full-color PDF format.

## Video and Audio Clips

The resource contains five video clips and one audio clip as part of the narrative cases. All clips are accessible online or via the QR codes in the Facilitator's Guide.

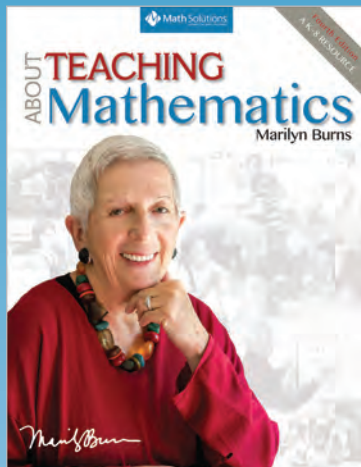
## PowerPoint Slides

A downloadable PowerPoint® presentation further helps with facilitating the modules.

**ISBN: 978-1-935099-88-8**

**Grades Middle and High School 390 pages \$279.95**

# RESOURCES BY MARILYN BURNS



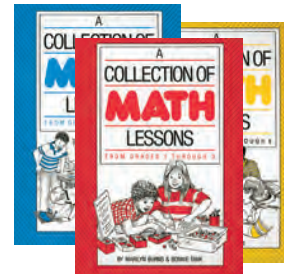
## About Teaching Mathematics, Fourth Edition

See page 5.



## 50 Problem-Solving Lessons: The Best from 10 Years of Math Solutions Newsletters

See page 23.



## A Collection of Math Lessons Series

See page 23.



## Lessons for Algebraic Thinking® Series

See page 14.



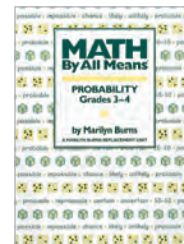
## The Marilyn Burns Fraction Kit®

See page 9.



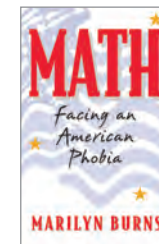
## Math and Literature Series

See page 19.



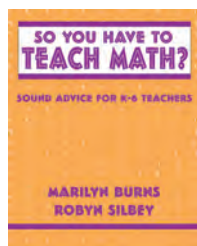
## Math By All Means®; Probability

See page 13.



## Math: Facing an American Phobia

See Math Solutions bookstore on website for product details.



## So You Have to Teach Math? Sound Advice for K-6 Teachers

See page 25.



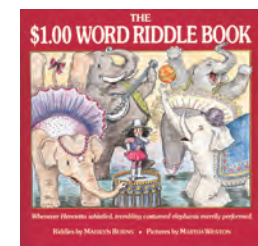
## Teaching Arithmetic® Series

See page 8.



## Writing in Math Class: A Resource for Grades 2-8

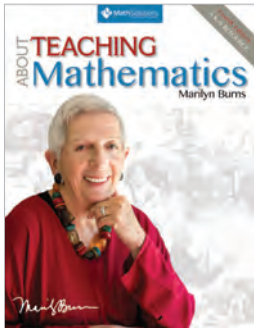
See page 19.



## The \$1.00 Word Riddle Book

See Math Solutions bookstore on website for product details.

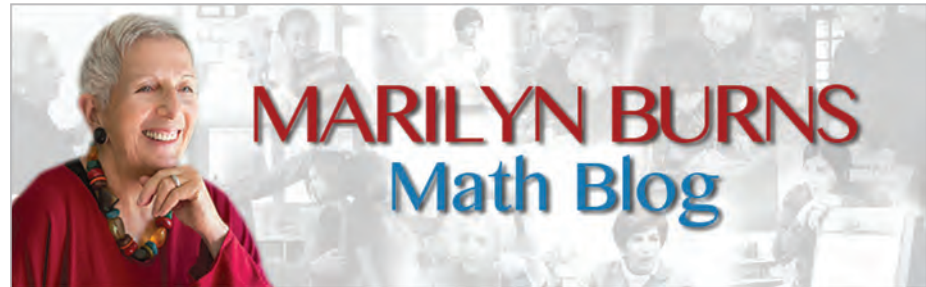
# ABOUT TEACHING MATHEMATICS



## About Teaching Mathematics, Fourth Edition

In this fourth edition of her signature resource, Marilyn presents her current thinking and insights and includes ideas from her most recent teaching experiences. Part 1, “Starting Points,” reflects the major overhaul of this book and addresses 23 issues important to thinking about teaching mathematics today. Part 2, “Problem-Solving Investigations,” and Part 3, “Teaching Arithmetic,” offer whole-class, small-group, and individual investigations. In Part 4, Marilyn responds to questions she has received from teachers over the years.

**ISBN: 978-1-935099-32-1**  
**Grades K–8 536 pages \$89.95**



## Marilyn is Blogging and Tweeting!

Hear directly from Marilyn regarding her current thinking about math education and her ongoing classroom experiences and learning.

**MARILYN BURNS**  
Math Blog

[marilynburnsmathblog.com](http://marilynburnsmathblog.com)



[@mburnsmath](https://twitter.com/mburnsmath)

Can  $\frac{1}{3} + \frac{1}{3} = \frac{2}{6}$ ? It seemed so!

Thursday, March 22nd, 2018



I thought I was on the right world contexts to talk about fourth and fifth graders. I'm still mulling over what I collected.

Teaching Adding Decimals: What If You Give the Answer First?

Sunday, January 14th, 2018

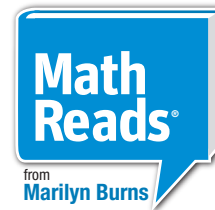
When teaching students to add decimals, I wind up reminding students to “line up the decimal points.” This makes sense to some students while others follow the rule without understanding. How can we teach adding decimals to develop understanding and skill? Here's a possible suggestion: Give the correct answer up front.

# MATH INTERVENTION RESOURCES BY MARILYN BURNS



Designed to support struggling students in Grades 1–5, *Do The Math*® offers comprehensive teacher support and high-quality instruction to help students develop the skills they need to compute with accuracy and efficiency, the number sense they need to reason, and the ability to apply their skills and reasoning to solve problems.

For more information, visit:  
[store.mathsolutions.com](http://store.mathsolutions.com)  
[hmhco.com/dothemath](http://hmhco.com/dothemath)



*Math Reads*® is a math and literature program for students in Grades K–5. Each book in *Math Reads* invites students into the world of mathematics through lessons inspired by delightful children's books.

For more information, visit:  
[store.mathsolutions.com](http://store.mathsolutions.com)

# MATH TALK

**Math Talk** is a collection of professional development resources and programs created to help teachers encourage and leverage classroom communication to boost math learning. By encouraging students to “talk math” teachers gain insight into students’ understanding of critical math concepts. Students benefit from learning to reason more deeply, use accurate math language, and build stronger math memory.



## Talk Moves: A Teacher's Guide for Using Classroom Discussions in Math

Suzanne H. Chapin, Catherine O'Connor, and Nancy Canavan Anderson

This resource offers an award-winning, unparalleled look at the significant role that classroom discussions can play in teaching mathematics and deepening students’ mathematical understanding and learning. Based on a four-year research project funded by the U.S. Department of Education, this resource is divided into three sections:

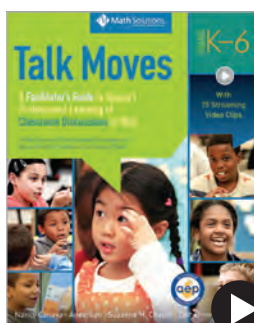
- Section I: Getting Started: Mathematics Learning with Classroom Discussions
- Section II: The Mathematics: What Do We Talk About?
- Section III: Implementing Classroom Discussions

This third edition offers 46 video clips from kindergarten through Grade 6, showing students and teachers engaged in successful classroom discussions. This title was formerly *Classroom Discussions in Math*.

**Intended for Individual Teacher Use**

**ISBN: 978-1-935099-8-26**

**Grades K–6 448 pages \$73.95**



## Talk Moves: A Facilitator's Guide to Support Professional Learning of Classroom Discussions in Math

Nancy Canavan Anderson, Suzanne H. Chapin, and Catherine O'Connor

Featuring 20 professional sessions and 75 video clips, this facilitator’s guide can be used in conjunction with the above teacher’s guide or separately. This title was formerly *Classroom Discussions in Math*.

**Intended for Group/Professional Learning Use**

**ISBN: 978-1-935099-83-3**

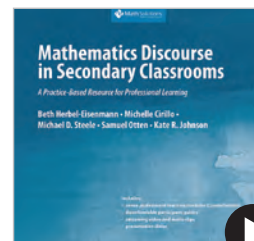
**Grades K–6 240 pages \$149.95**

## Talk Moves Bundle

Includes one copy of the above *Talk Moves: Teacher's Guide* and one copy of *Talk Moves: Facilitator's Guide*.

**ISBN: 978-1-935099-30-7**

**Grades K–6 \$179.00**



## Mathematics Discourse in Secondary Classrooms

Beth Herbel-Eisenmann, Michelle Cirillo, Michael D. Steele, Samuel Otten, Kate R. Johnson

**ISBN: 978-1-935099-88-8**

**Middle and High School 390 pages \$279.95**

See page 3 for description.

## Math Talk Bundles

Save on Math Talk resources by purchasing our Big Talk, Small Talk, and Complete Math Talk Bundles. See page 18.



## Math Talk Moves Poster

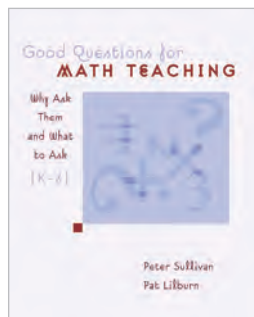
Talk moves are strategies that teachers can use to facilitate whole-class discussions that deepen students’ mathematical understanding. This friendly and fun poster is perfect.

24 x 36 inches, shrink-wrapped

**ISBN: 978-0-545-84883-1**

**Package of 10 \$29.9**





## Good Questions for Math Teaching: Why Ask Them and What to Ask, Grades K-6

Peter Sullivan and Pat Lilburn

Do you think it makes sense to split a day into 24 hours? Would another number have been a better choice? *Good questions* promote students' mathematical thinking and understanding. This best-selling book offers a wealth of sample questions as well as guidance on how to create your own good questions.

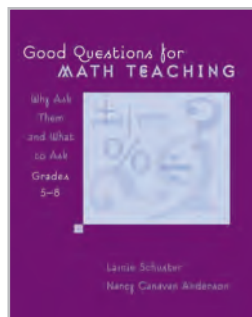
**ISBN: 978-0-941355-51-3**

Grades K-6 112 pages \$28.95

## Good Questions: Complete Set of 2 Books

**ISBN: 978-0-941355-94-0**

\$47.52



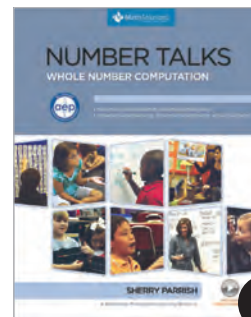
## Good Questions for Math Teaching: Why Ask Them and What to Ask, Grades 5-8

Lainie Schuster and  
Nancy Canavan Anderson

This second book in the series continues to inspire teachers to develop open-ended questioning techniques. *Good questions*—or open-ended questions—promote students' mathematical thinking, understanding, and proficiency. By asking careful, purposeful questions, teachers create dynamic learning environments, help students make sense of math, and unravel misconceptions.

**ISBN: 978-0-941355-69-8**

Grades 5-8 208 pages \$28.95



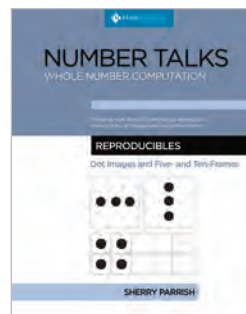
## Number Talks: Whole Number Computation

Sherry Parrish

See page 11 for a complete description of this resource.

**ISBN: 978-1-935099-65-9**

Grades K-5 432 pages \$75.95



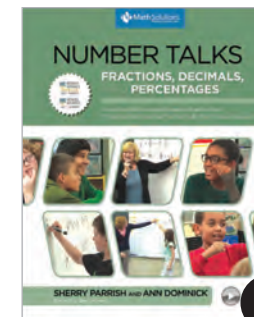
## Number Talks: Dot Images and Five- and Ten-Frames (Download only\*)

Sherry Parrish

Reproducible page size:  
8.5" x 11" for ease of printing.

**ISBN: 978-1-935099-47-5**

279 pages \$29.95



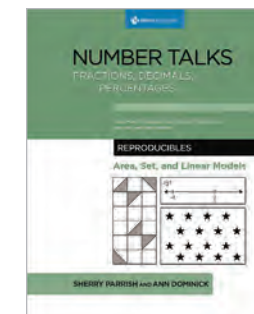
## Number Talks: Fractions, Decimals, and Percentages

Sherry Parrish and Ann Dominick

See page 11 for a complete description of this resource.

**ISBN: 978-1-935099-75-8**

Grades 3-7 404 pages \$75.95



## Number Talks: Area, Set, and Linear Models (Download only\*)

Sherry Parrish and Ann Dominick

See page 11 for a complete description of this resource.

**ISBN: 978-1-935099-87-1**

Grades 3-7 \$29.95

\* Downloadable products are nonrefundable.

# NUMBER & OPERATIONS | FRACTIONS

## Teaching Arithmetic® Series

Support mathematical understanding in your instructional program through this rich collection of easy-to-use teaching resources. Each book focuses on a specific arithmetic topic and offers a series of classroom-tested lessons addressing the three important aspects of arithmetic instruction—computation, number sense, and problem solving. The lessons include step-by-step directions, amount of time needed, materials required, classroom vignettes, samples of student work, reproducibles, and a discussion of the math underlying the lesson.

### Lessons for First Grade

Stephanie Sheffield

ISBN: 978-0-941355-34-6

176 pages

\$37.95

### Lessons for Extending Place Value, Grade 3

Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-57-5

256 pages

\$37.95

### Lessons for Extending Multiplication, Grades 4–5

Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-31-5

224 pages

\$37.95

### Lessons for Extending Fractions, Grade 5

Marilyn Burns

ISBN: 978-0-941355-43-8

232 pages

\$37.95

### Lessons for Introducing Place Value, Grade 2

Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-45-2

200 pages

\$37.95

### Lessons for Introducing Multiplication, Grade 3

Marilyn Burns

ISBN: 978-0-941355-41-4

208 pages

\$37.95

### Lessons for Extending Division, Grades 4–5

Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-46-9

296 pages

\$37.95

### Lessons for Multiplying and Dividing Fractions, Grades 5–6

Marilyn Burns

ISBN: 978-0-941355-64-3

200 pages

\$37.95

### Lessons for Addition and Subtraction, Grades 2–3

Bonnie Tank and Lynne Zolli

ISBN: 978-0-941355-32-2

200 pages

\$37.95

### Lessons for Introducing Division, Grades 3–4

Maryann Wickett, Susan Ohanian, and Marilyn Burns

ISBN: 978-0-941355-42-1

216 pages

\$37.95

### Lessons for Introducing Fractions, Grades 4–5

Marilyn Burns

ISBN: 978-0-941355-33-9

192 pages

\$37.95

### Lessons for Decimals and Percents, Grades 5–6

Carrie De Francisco and Marilyn Burns

ISBN: 978-0-941355-44-5

232 pages

\$37.95



\*

\* Not all covers are shown.

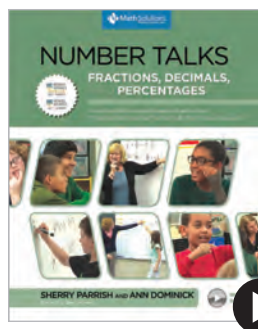
### Teaching Arithmetic® Series: Complete Set of 12 Books

ISBN: 978-0-941355-91-9

\$376.89



# FRACTIONS



## Number Talks: Fractions, Decimals, and Percentages

Sherry Parrish and Ann Dominick

This second resource in the best-selling Number Talks series supports teachers who want to implement number talks but are unsure of how to begin and teachers who are seasoned in this art of instruction but desire additional support in crafting purposeful problems. This resource is intended to help teachers begin or refine their use of number talks with fractions, decimals, and percentages. The more than 30 video clips give readers the opportunity to access authentic classroom number talks with third- through seventh-grade students.

**ISBN: 978-1-935099-75-8**

**Grades 3–7 404 pages \$75.95**



## Beyond Pizzas & Pies: 10 Essential Strategies for Supporting Fraction Sense, Second Edition

Julie McNamara and Meghan M. Shaughnessy

The focus of this resource is on foundational understandings. The authors help 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 resource, *Beyond Invert & Multiply*), they have a solid foundation.

**ISBN: 978-1-935099-53-6**

**Grades 3–5 232 pages \$62.95**

This resource features more than 30 online video clips filmed in actual classrooms.



## Beyond Invert & Multiply: Making Sense of Fraction Computation

Julie McNamara

This resource builds on the foundational understandings that are described in *Beyond Pizzas & Pies* and applies them to situations involving fraction computation. 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.

**ISBN: 978-1-935099-57-4**

**Grades 3–6 240 pages \$62.95**

This resource features more than 30 online video clips filmed in actual classrooms.



## The Marilyn Burns Fraction Kit®

Discover the single most effective manipulative material that Marilyn Burns uses for teaching fractions. Playing a prominent role in the three fraction books from the Teaching Arithmetic series, (see page 8), the kit contains *The Fraction Kit Guide, Grades 4–6*; 30 sets of 8 colored 2-by-15-inch strips with student storage bags; 15 beginner and 15 advanced fraction dice; and a teacher set of magnetic strips.

### Complete Fraction Kit

**Grades 4–6 Item no. 600215 \$49.95**

### Replacements:

**15 beginner fraction dice (red)**

**Item no. 617983 \$14.95**

**15 advanced fraction dice (blue)**

**Item no. 617982 \$14.95**

**30 sets of 8 colored strips**

**Item no. 617984 \$24.95**

**Teacher set of magnetic strips**

**Item no. 617985 \$17.95**



# NUMBER SENSE



**COMING SOON!**

## **It Makes Sense! Using Number Paths and Number Lines to Build Number Sense**

Ann Carlyle

See page 3 for a complete description of this resource.

**ISBN: 978-1-935099-51-2**

**Grades K–2 Pages TBD \$36.95**



## **It Makes Sense! Using Ten-Frames to Build Number Sense**

Melissa Conklin

This resource includes 20 classroom-tested lessons that provide friendly, meaningful support for using ten-frames, one of the most important models teachers can use to help students anchor to the landmark number ten and develop all aspects of number sense. Three types of step-by-step lessons—routines, games, and problem-solving activities—provide students with opportunities to think, reason, and communicate about numbers.

**ISBN: 978-1-935099-10-9**

**Grades K–2 320 pages \$36.95**



## **It Makes Sense! Using the Hundreds Chart to Build Number Sense**

Melissa Conklin and Stephanie Sheffield

Twenty classroom-tested lessons and games in this resource transform the hundreds chart from a poster on the classroom wall into a hands-on, interactive tool used by both teachers and students. The hundreds chart is one of the most important tools teachers can manipulate to help students think about our base-ten number system and to build a mental model of the mathematical structure of it.

**ISBN: 978-1-935099-37-6**

**Grades K–2 288 pages \$36.95**

### **It Makes Sense! Series**

Includes *It Makes Sense! Hundreds Chart* and *It Makes Sense! Ten Frames*.

**ISBN: 978-1-935099-50-5 \$59.95**

### **Teaching Number Sense Series**

The goals of this series are to help children to see numbers as tools and not barriers, to be able to reason their way to solutions should they forget a procedure, and to be comfortable using numbers to make sense of the world. Each lesson is organized in an accessible, easy-to-read format that includes a lesson overview, a list of needed materials, the time required to teach the lesson, step-by-step teaching directions, reproducibles, and a vignette of how the lesson actually unfolded in a classroom. Each lesson concludes with a list of assessment questions.

#### **Kindergarten**

Chris Confer

**ISBN: 978-0-941355-58-2**

**Grade K 160 pages \$32.95**

#### **Grade 1**

Chris Confer

**ISBN: 978-0-941355-59-9**

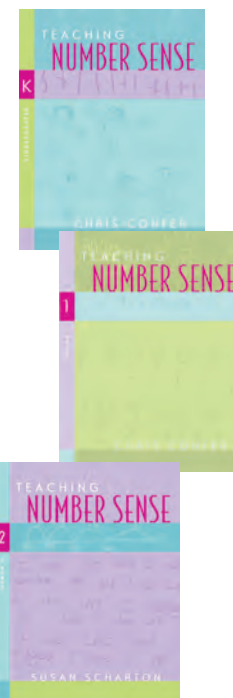
**Grade 1 160 pages \$32.95**

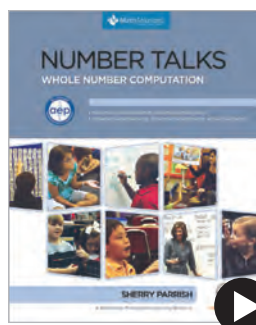
#### **Grade 2**

Susan Scharton

**ISBN: 978-0-941355-60-5**

**Grade 2 200 pages \$32.95**





## Number Talks: Whole Number Computation

Sherry Parrish

This professional learning resource offers:

- More than 850 purposefully designed number talks
- Video clips featuring 19 number talks filmed in actual classrooms

While the book may be used as an independent resource, it is also structured to provide a framework for collaborative learning groups or to provide professional learning opportunities through grade-level teams, schools,

or districts. Chapter 9 serves as a facilitator's guide, providing guidance for use of the video clips by grade level, along with discussion questions to support reflection and collegial conversations about number talks and student learning.

**ISBN: 978-1-935099-65-9**

**Grades K–5 432 pages \$75.95**



## Number Talks: Dot Images and Five- and Ten-Frames (Download only\*)

Sherry Parrish

Now the dot images and five- and ten-frames from Chapter 4 of the best-selling Number Talks resource are in a user-friendly, reproducible format! This downloadable file contains more than 250 reproducibles for immediate use.

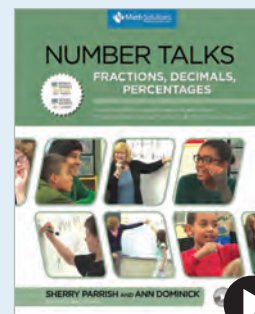
**ISBN: 978-1-935099-47-5**

**279 pages \$29.95**

"Sherry Parrish outlines the very best way to teach math to young children and gives educators access to the ideas and methods that they will need. This book is a valuable resource for anyone who cares about children's mathematical development."

—Jo Boaler, professor, Stanford University, and author of *What's Math Got to Do With It? Helping Children Learn to Love Their Least Favorite Subject*

## Fraction Sense



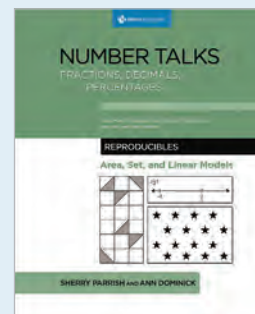
## Number Talks: Fractions, Decimals, and Percentages

Sherry Parrish and Ann Dominick

This second resource in the best-selling Number Talks series supports teachers who want to implement number talks but are unsure of how to begin and teachers who are seasoned in this art of instruction but desire additional support in crafting purposeful problems. This resource is intended to help teachers begin or refine their use of number talks with fractions, decimals, and percentages. More than 30 video clips give readers the opportunity to access authentic classroom number talks.

**ISBN: 978-1-935099-75-8**

**Grades 3–7 404 pages \$75.95**



## Number Talks: Area, Set, and Linear Models (Download only\*)

Sherry Parrish

Number Talks Reproducibles: Area, Set, and Linear Models include more than 150 pages of user friendly, reproducible area, set, and linear models from Chapters 4, 6, 7, and 8 of *Number Talks: Fractions, Decimals, and Percentages*.

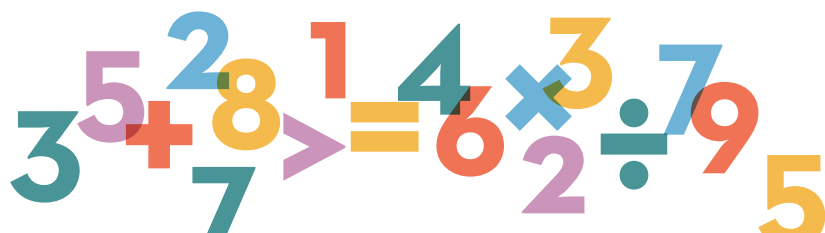
Reproducible page size:  
8.5" x 11" for ease of printing.

**ISBN: 978-1-935099-87-1**

**150 pages \$29.95**

See page 16 for Number Talks Course.

\* Downloadable products are nonrefundable.



# MEASUREMENT

Measurement requires estimation, making comparisons, mental math, and number sense. Students need to add, subtract, multiply, divide, and perceive numerical relationships in many different ways. Measurement must be an important part of the mathematics curriculum because it helps students make mathematical sense of their lives and prepares them for their future.

## Sizing Up Measurement Series

In this series, expert teachers share a wealth of classroom-tested lessons that focus on essential measurement concepts in a problem-solving context, as well as connect to other strands of the math curriculum and other disciplines, such as literature, social studies, and science. Each lesson is organized in an accessible, easy-to-use format that includes an overview, a list of materials, a vocabulary list, step-by-step teaching directions, and reproducibles.

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Vicki Bachman

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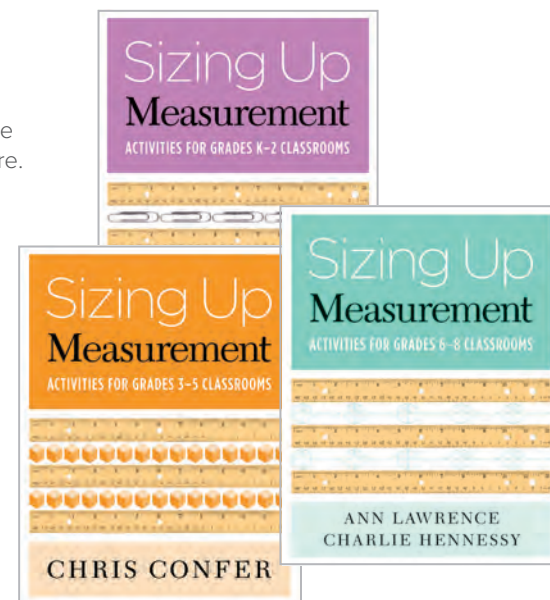
ISBN: 978-0-941355-81-0

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# GEOMETRY & PROBABILITY

## Math By All Means® Series

Each of these resources provides teachers with cohesive, classroom-tested lessons, specially structured so that all students—including those with limited experience as well as those who need a challenge—can successfully perform. Each book is organized into four main areas: “Whole-Class Lessons,” “Menu Activities,” “Assessments,” and “Homework.” Each book includes reproducibles.

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Cheryl Rectanus

The lessons in this book actively involve students in exploring geometric ideas through hands-on investigations with two- and three-dimensional shapes. Students also develop greater proficiency in logic, numbers, and measurement.

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Bonnie Tank

Through a variety of games and investigations using dice, cards, and spinners, students make predictions, collect data, and reflect on results. They also develop number sense and reinforce their computation skills. In the process, students learn what makes games fair or unfair and how to tell if they are based on strategy or chance.

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### Probability

Marilyn Burns

Challenging games, experiments, and investigations provide the context for students to gather sample data, predict outcomes, and then test their predictions. Students soon discover that they can assess the likelihood of an event actually occurring.

**ISBN: 978-0-941355-12-4**

**Grades 3–4 264 pages \$32.95**

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Cheryl Rectanus

Hands-on investigations with regular and irregular shapes help students go beyond learning the traditional formulas for finding area and perimeter. Lessons use color tiles, string, rulers, and measuring tapes.

**ISBN: 978-0-941355-18-6**

**Grades 5–6 208 pages \$32.95**



# ALGEBRA



## **It's All Connected: The Power of Representation to Build Algebraic Reasoning**

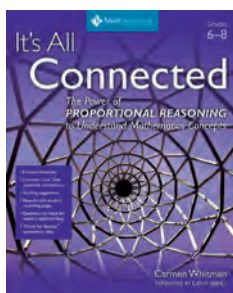
Frances Van Dyke

*It's All Connected* focuses on the power of representation to build algebraic reasoning, offering a collection of 40 quick lessons (each takes less than 30 minutes). The lessons feature: creative exercises that illustrate key concepts associated with the graphical representation of functions, reproducible pages on which students can record their work

(download provided upon purchasing this resource); correlations to the Common Core State Standards; teaching insights and more.

**ISBN: 978-1-935099-42-0**

Middle and High School 208 pages \$37.95



## **It's All Connected: The Power of Proportional Reasoning to Understand Mathematics Concepts**

Carmen Whitman

*It's All Connected* provides teachers of mathematics the support they need to improve their instruction. This in-demand collection of lessons for Grades 6 through 8 explores proportionality, proportional relationships, and proportional reasoning, acknowledging that the ability to reason proportionally is crucial in the middle school

mathematics curriculum. The lessons support teachers and students in thinking of proportionality as the big idea that connects across all strands. Each lesson features: Common Core State Standards correlations; connections to the 5 content strands of middle-school mathematics; engaging themes, from *Zapping Zombies* to *Downloading Music*; carefully detailed teaching suggestions; three sets of question types to ask students as they progress through lessons—questions for struggling students, students on task, and students who need extensions; reproducible student recording pages; and “Check for Success” assessment ideas.

**ISBN: 978-1-935099-24-6**

Grades 6–8 304 pages \$37.95

### **It's All Connected bundle**

Includes *It's All Connected: The Power of Representation to Build Algebraic Reasoning* and *It's All Connected: The Power of Proportional Reasoning to Understand Mathematics Concepts*.

**ISBN: 978-1-935099-49-9**

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## **Active Algebra: Strategies and Lessons for Successfully Teaching Linear Relationships**

Dan Brutlag

Based on recent research on the adolescent brain, *Active Algebra* presents a living, working example of how teachers can use active learning techniques to make linear relationships more meaningful for students. In addition to the 10 reproducible, sequenced lessons, this award-winning resource includes seven chapters of guidance in teaching algebra. It offers comprehensive coverage of active learning strategies,

mental math, student presentations, graphing calculators, classroom management, and more. It also provides connections to NCTM's *Principles and Standards for School Mathematics* (NCTM®, 2000).

**ISBN: 978-1-935099-05-5**

Middle and High School 192 pages \$40.95



## **Lessons for Algebraic Thinking® Series**

Algebra, once a topic relegated to high school, is now one of the top priorities for elementary and middle school. Lessons in this series build on instruction teachers already provide in arithmetic. Each classroom-tested lesson features an overview, vocabulary used, time needed, materials required, and a vignette of how the lesson actually unfolded in a classroom. Books also include authentic samples of student work, an abundance of reproducibles, and key ideas to help teachers understand the math being taught.

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Leyani von Rotz and Marilyn Burns

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Maryann Wickett, Katharine Kharas, and Marilyn Burns

**ISBN: 978-0-941355-48-3**

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### **Grades 6–8**

Ann Lawrence and Charlie Hennessy

**ISBN: 978-0-941355-49-0**

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[www.youtube.com/user/math solutions150](https://www.youtube.com/user/math solutions150)

MARILYN BURNS  
Math Blog

[www.marilynburnsmathblog.com](https://www.marilynburnsmathblog.com)



# PROFESSIONAL LEARNING COURSES

## Math Solutions Professional Learning Courses

More than “workshops” or “training,” Math Solutions courses are designed and delivered by our team of professional development experts to address critical instructional needs. Our accelerated, sustainable, best-practice strategies and methods target universal teaching challenges efficiently and effectively.

### **NEW! Number Talks: Fractions, Decimals, and Percentages, Grades 3–7**

This one-day course focuses on number talks that build conceptual understanding of fractions, decimals, and percentages. Participants learn how to use this routine as a vehicle to focus on the essential understandings of rational numbers and develop a robust fluency. Content from *Number Talks* is woven throughout this course.

#### **Outcomes**

- Facilitate number talks to draw attention to student thinking and bring their reasoning to the forefront of the class.
- Shift instruction about rational numbers from procedure- and rule-based toward sense making and understanding.
- Highlight contexts and models during number talks to develop and anchor flexible and efficient strategies for reasoning and computing with rational numbers.

#### **Target Audience:**

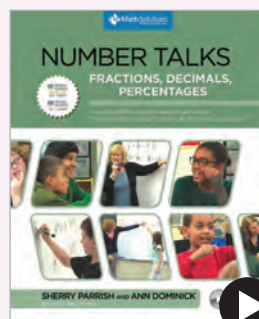
Math Coaches, Teacher Leaders, Teachers

#### **Grades:** 3–7

#### **Format:** Full Day

#### **For more information visit:**

[mathsolutions.com/ms\\_course/number-talks-fractions](https://mathsolutions.com/ms_course/number-talks-fractions)



### **Number Talks: Whole Number Computation, Grades K–5**

This course introduces teachers, math coaches, and curriculum specialists to the theory, structure, and focus of number talks. As participants interact throughout the day, they reflect on their current practices and target essential understandings about numbers and operations called for in their state standards. Content from our award-winning and best-selling title *Number Talks* is woven throughout this course.

#### **Outcomes**

- Recognize number talks as a valuable classroom routine for making sense of mathematics, developing efficient computation strategies, communicating reasoning, and proving solutions.
- Characterize the key components of number talks and understand the importance of each.
- Explore ways to support students' development of common strategies for addition and subtraction.
- Describe student strategies that emphasize the important mathematical ideas inherent in the strategies.
- Use models and tools that support student understanding and proficiencies with whole number operations.

#### **Target Audience:**

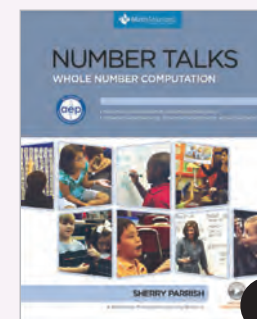
Math Coaches, Teacher Leaders, Teachers

#### **Grades:** K–2, K–5, 3–5

#### **Format:** Full Day

#### **For more information visit:**

[mathsolutions.com/ms\\_course/number-talks](https://mathsolutions.com/ms_course/number-talks)



# PROFESSIONAL LEARNING COURSES

## Differentiating Mathematics Instruction

This course helps teachers understand what it means to support all students by differentiating three aspects of the math curriculum: content, process, and product. Teachers examine a variety of approaches that help them make instructional adjustments to content, provide activities that accommodate different students' learning styles, and offer a variety of ways for students to demonstrate what they've learned. Content from *How to Differentiate Your Math Instruction* is woven throughout this course.

### Outcomes

- Experience and analyze strategies to adapt classroom practices to address the wide range of learners in classrooms and make learning accessible for all students.
- Gather and use information about what students already know, their interests, and how they learn best.
- Choose, analyze, and adjust tasks to accommodate students' varying levels of readiness.
- Experience a classroom atmosphere that stimulates and supports students' learning of mathematics.

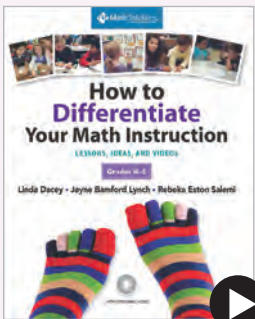
**Target Audience:** Math Coaches, Teacher Leaders, Teachers

**Grades:** K–2, K–5, 3–5

**Format:** Two Day; Additional Options May Be Available

**For more information visit:**

[mathsolutions.com/ms\\_course/differentiating-mathematics-instruction](https://mathsolutions.com/ms_course/differentiating-mathematics-instruction)



For more Math Solutions courses  
visit [mathsolutions.com/courses](https://mathsolutions.com/courses).

## NEW! Math Workshop: Structures and Practices for Student Learning

Standards and student needs drive mathematics instruction. This course highlights Math Workshop, a model for organizing standards-based instruction to support all learners in the mathematics classroom. Participants engage in the Math Workshop model of instruction, reflect on how the structures and learning environment leverage increased learning for all students, and create a plan to implement Math Workshop in the classroom. Content from *Math Workshop* is woven throughout this course.

### Outcomes

- Understand the purpose and use of the three structures of Math Workshop.
- Verbalize and act on the roles of the teacher and students in the Math Workshop classroom.
- Implement a plan for getting started with Math Workshop.
- Create a Math Workshop classroom that relies on formative assessment and differentiation.

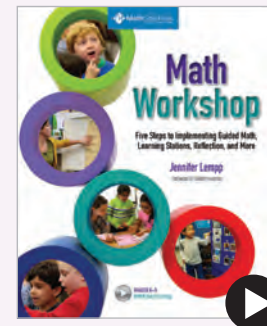
### Target Audience:

Math Coaches, Teacher Leaders, Teachers

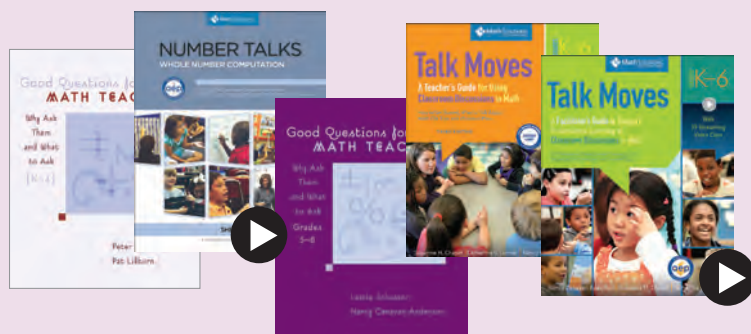
**Grades:** K–2, K–5, 3–5

**For more information visit:**

[mathsolutions.com/ms\\_course/mathworkshop](https://mathsolutions.com/ms_course/mathworkshop)



# BUNDLES & LIBRARIES



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### Big Talk Bundle

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## The Complete Math Talk Bundle

Item no. 514032

Full list price: \$462.65 Discounted price: \$389.00

## Talk Moves Bundle

Includes one copy of the teacher's guide and one copy of the facilitator's guide.

ISBN: 978-1-935099-30-7

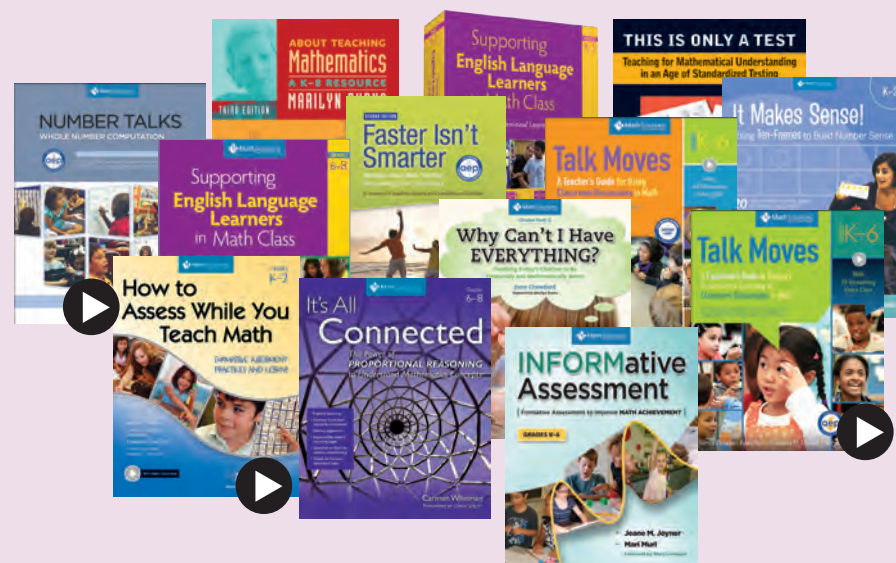
Full list price: \$223.90 Discounted price: \$179.00 Grades K–6 \$179.00

## Math Solutions Assessment Bundle

Bundle includes: *INFORMative Assessment: Formative Assessment Practices to Improve Mathematics Achievement, Grades K–6* and *How to Assess While You Teach Math, Grades K–2*.

Item no. 514031

Full list price: \$104.90 Discounted price: \$89.00



## Math Solutions Library\*

Math Solutions libraries by grade span include research-based, classroom-tested books and resources to support educators in implementing best practices and effective strategies that advance student learning in math. From theory to lessons, these collections cover key mathematical topics and strands addressed in elementary and middle school.

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Includes 95 books and resources.

Item no. 514023

Full list price: \$3,690.30 Discounted price: \$2,400.00

## Essential K–5 Library

Includes 83 books and resources.

Item no. 514024

Full list price: \$3,273.90 Discounted price: \$2,100.00

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Includes 26 books and resources.

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Full list price: \$828.70 Discounted price: \$535.00

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Marilyn Burns and Stephanie Sheffield

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152 pages \$32.95

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Marilyn Burns and Stephanie Sheffield

ISBN: 978-0-941355-67-4

160 pages \$32.95

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Rusty Bresser

ISBN: 978-0-941355-68-1

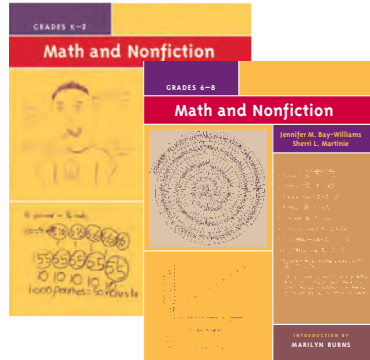
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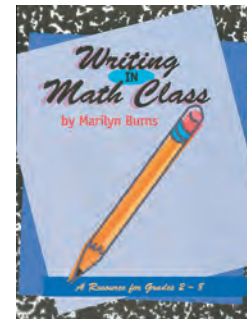
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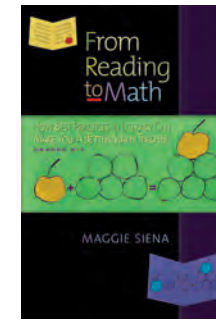
## Writing in Math Class: A Resource for Grades 2-8

Marilyn Burns

How can writing help students think more deeply and clearly about mathematical ideas? Marilyn Burns shares numerous examples illustrating how students sort, clarify, and define their thinking through different types of writing—journal writing, solving math problems, explaining mathematical ideas, and linking creative writing to math. Includes assessment strategies, answers to frequently asked questions, and samples of authentic student work.

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Maggie Siena

Are your students engaged and motivated to read and write but hesitant during math instruction? Do you want your students to be as excited about math as they are about literacy? This unique resource explores how best practices for teaching reading and writing can help you become a better math teacher. Drawing on the work of such educators as Richard Allington, Carl Anderson, Marilyn Burns, Cathy Fosnot, Stephanie Harvey, Heidi Hayes Jacobs, Ellin Keene, and Diane Snowball, the author describes strategies that work in teaching literacy and how to successfully implement them in the math class.

ISBN: 978-1-935099-04-8

Grades K-5 168 pages \$27.95



## FINANCIAL LITERACY



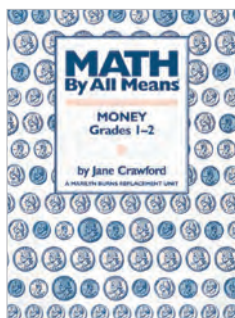
### Why Can't I Have Everything? Teaching Today's Children to Be Financially and Mathematically Savvy

Jane Crawford

In today's financial climate, it's more crucial than ever to equip children with monetary and economic sense. This timely resource features more than 40 lessons categorized by seven important financial literacy themes for young learners. The lessons include literature connections, corresponding formative assessments, ideas for parents, and alignments to the Common Core State Standards for Mathematics. In the appendices, you'll find reproducible letters for parents to go with the lessons, plus a final project that ties all the lessons together.

**ISBN: 978-1-935099-25-3**

Grades PreK–2 272 pages \$35.95



### Math By All Means®: Money

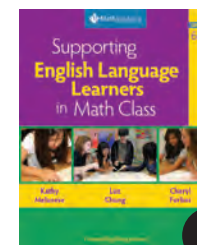
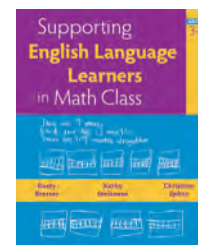
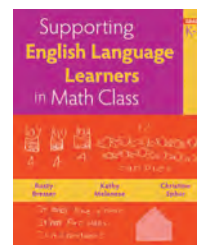
Jane Crawford

Give students in-depth experience with identifying coins and their values, counting money, and applying their learning to problem-solving situations by using this resource's more than 30 lessons. Extensive references to children's literature, along with engaging games and activities, help strengthen children's number sense and computation skills.

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Kathy Melanese, Luz Chung, and Cheryl Forbes

**ISBN: 978-1-935099-18-5**

256 pages \$36.95

### Supporting English Language Learners in Math Class, A Multimedia Professional Learning Resource

See page 27 for a complete description of this resource.

**ISBN: 978-1-935099-07-9**

Grades K–5 \$149.95

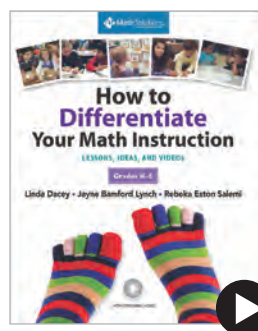
### Supporting English Language Learners in Math Class Series: Set of 2 Books, Grades K–2 and 3–5

**ISBN: 978-0-941355-99-5**

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# DIFFERENTIATED INSTRUCTION



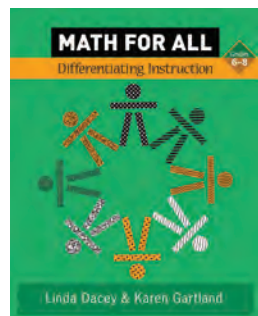
## How to Differentiate Your Math Instruction: Lessons, Ideas, and Videos

Linda Dacey, Jayne Bamford Lynch, and Rebeka Eston Salemi

How can teachers meet the growing diversity of learning needs in their classrooms? Furthermore, how do teachers meet this challenge in the midst of increasing pressures to master specified content? This resource shares classroom practices that help all students be successful. It features 21 video clips that illustrate how everything from menus and tiered tasks to math workshops and multiple intelligences centers can be carried out in the classroom.

ISBN: 978-1-935099-40-6

Grades K–5 384 pages \$72.95



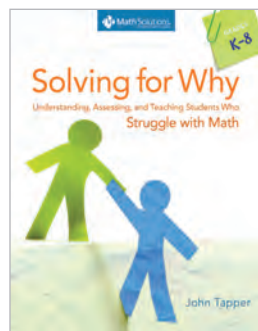
## Math for All: Differentiating Instruction

Linda Dacey and Karen Gartland

This resource is a must-read for teachers, administrators, math coaches, special education staff, and any other educator who wishes to ensure that all students are successful learners of mathematics. Focusing on the specific needs for teaching and learning mathematics in middle school, the book includes dozens of ready-to-use, research-based tasks plus strategies for structuring choice within classrooms.

ISBN: 978-1-935099-00-0

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## Solving for Why: Understanding, Assessing, and Teaching Students Who Struggle with Math

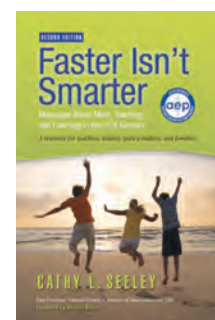
John Tapper

This resource offers educators the tools and guidance essential for successfully solving for why students struggle with mathematics. The step-by-step, Response to Intervention (RTI)-like approaches, focused on assessment and communication with students, help teachers gain insight into student understanding in a remarkably different way than recipe-type approaches that assume the same solution applies to learners with similar struggles.

ISBN: 978-1-935099-33-8

Grades K–8 256 pages \$37.95

# CHANGE FACILITATION



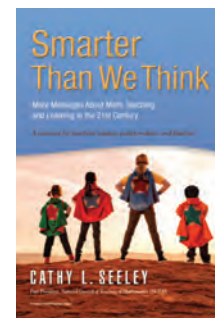
## Faster Isn't Smarter: Messages About Math, Teaching, and Learning in the 21st Century, Second Edition

Cathy L. Seeley

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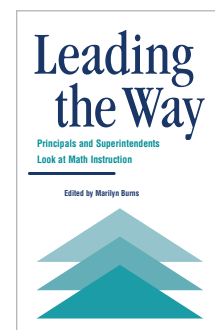
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Cathy L. Seeley

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Edited by Marilyn Burns

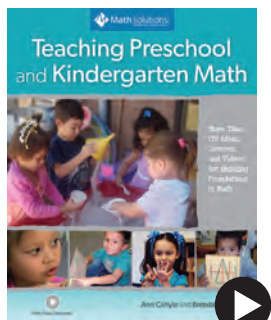
This collection of essays provides a firsthand glimpse into the challenges administrators face and the efforts they've made to promote the best in mathematics education. This book is a must for superintendents, principals, math coordinators, teacher leaders, math coaches, and other administrators who are supporting high-quality, standards-based mathematics instruction in their schools and districts.

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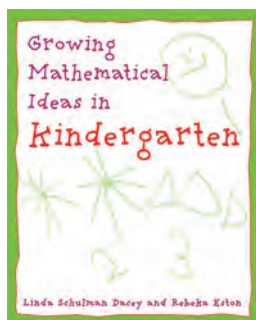
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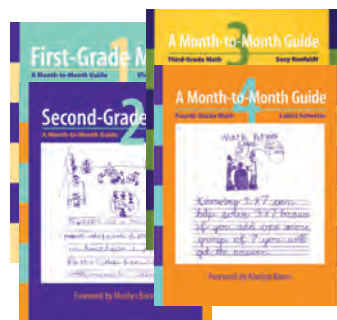
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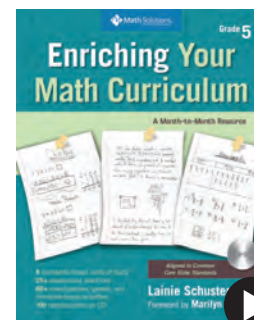
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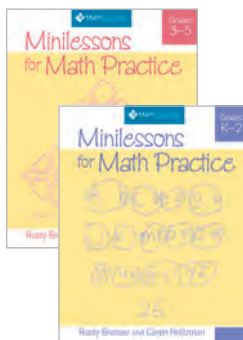
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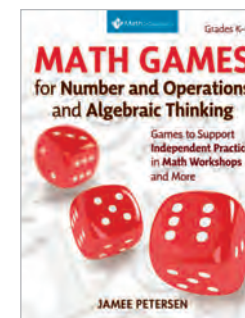
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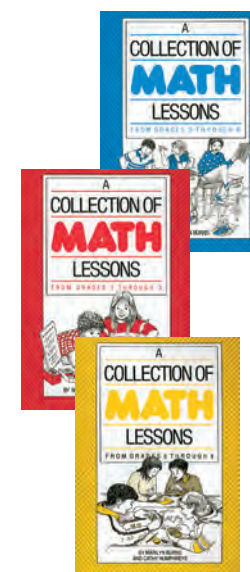
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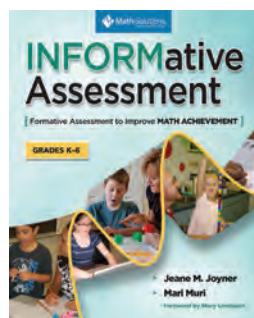
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# ASSESSMENT



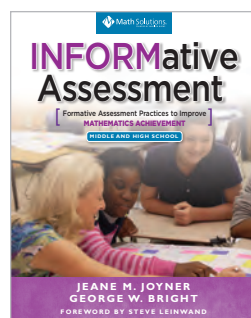
## INFORMative Assessment: Formative Assessment Practices to Improve Mathematics Achievement, Grades K–6

Jeane M. Joyner and Mari Muri

What is formative assessment? Why do we do it and what do students gain? Formative assessment is not a one-time event. It is not the product or end result of a set of well-defined steps. Rather, formative assessment is a process identified in this resource as “INFORMative assessment” when it is a collection of strategies that engage teachers and students in becoming partners to support students’ learning. This resource uniquely presents a collaborative learning journey in which educators understand the INFORMative perspective, explore must-have practices, and discuss how to implement them.

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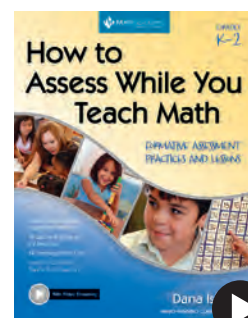
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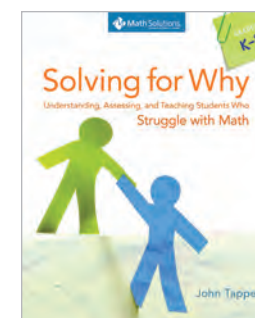
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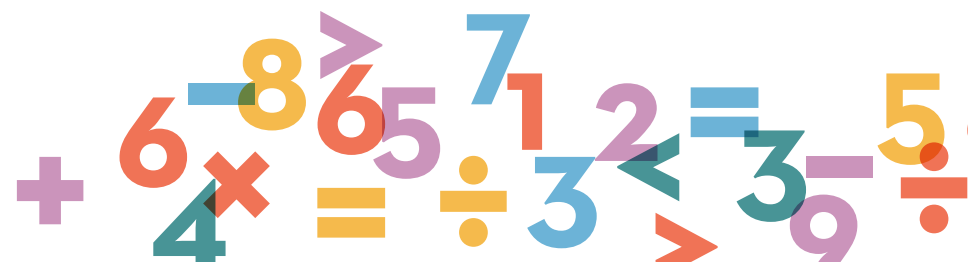
## Solving for Why: Understanding, Assessing, and Teaching Students Who Struggle with Math

John Tapper

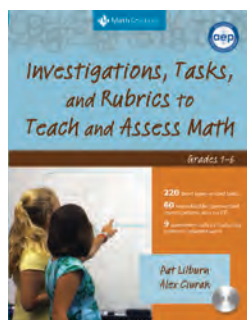
This resource offers educators the tools and guidance essential for successfully solving for why students struggle with mathematics. The step-by-step, Response to Intervention (RTI)-like approaches, focused on assessment and communication with students, help teachers gain insight into student understanding in a remarkably different way than recipe-type approaches that assume the same solution applies to learners with similar struggles.

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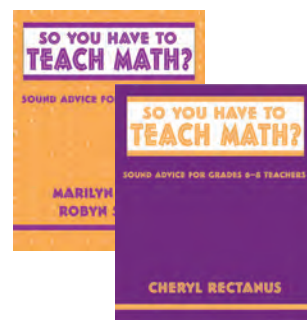


## This Is Only a Test: Teaching for Mathematical Understanding in an Age of Standardized Testing

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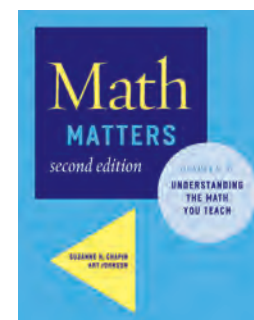
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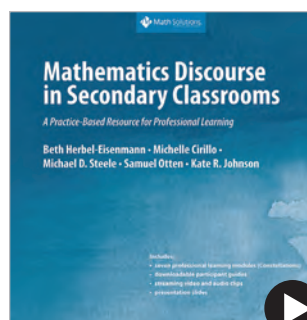
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This must-have resource is widely acknowledged for helping teachers, coordinators, and college faculty deepen their understanding of the mathematical concepts they teach. *Math Matters* provides an in-depth study with 14 chapters covering number sense, computation, addition, subtraction, multiplication, division, fractions, decimals, percents, ratios, algebra, geometry, spatial sense, measurement, statistics, and probability. Over 100 activities give readers an opportunity to connect ideas, compare and contrast concepts, and consider how students understand the mathematics presented.

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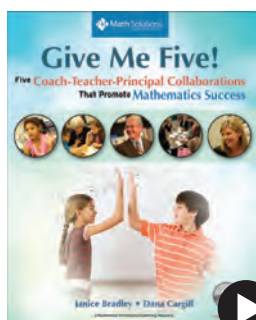
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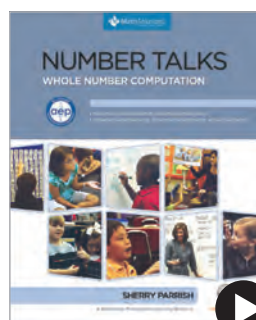


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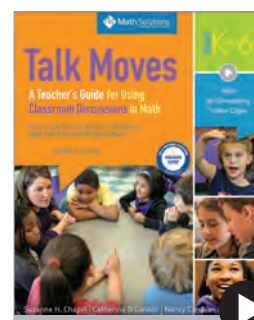
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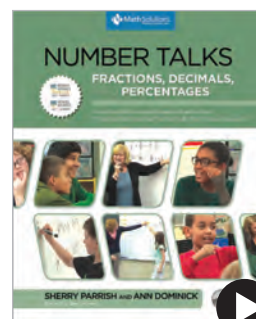
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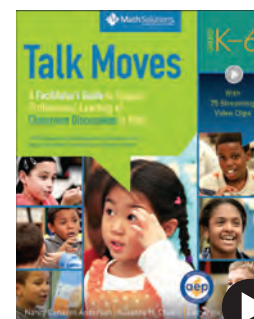
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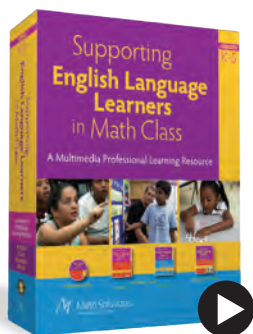
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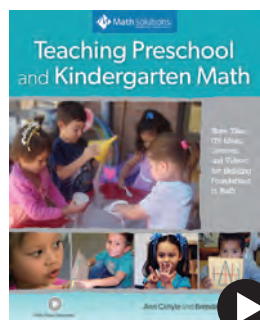
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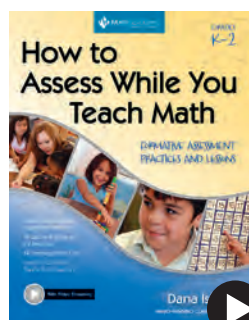
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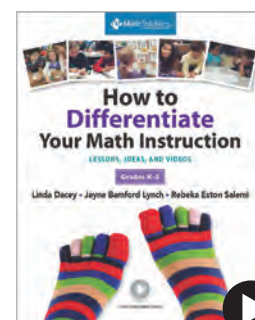
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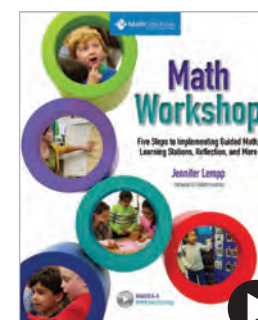
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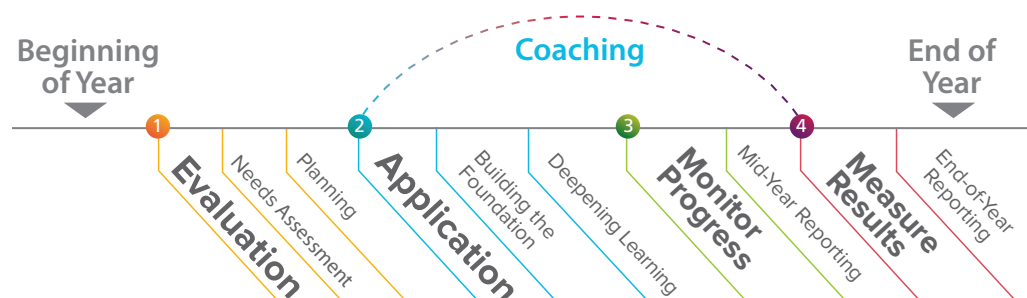
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# How We Achieve Results

**Math Solutions** will help your school or district identify instructional needs, create a plan to address them, build capacity throughout the educator staff, provide the skills and best practices your teachers and students need to make measurable gains, and ensure that you are able to sustain the momentum of success. Together, your school or district can become a success story.

## TIME LINE TO SUCCESS



For more information, visit  
[mathsolutions.com/contact-us/request-information](https://mathsolutions.com/contact-us/request-information)

### PHASE 01 EVALUATION

#### Perform a Comprehensive Instructional Needs Assessment and Create a Plan of Action

Math Solutions helps you create a strategic plan that not only identifies where you are and where you need to be, but includes the tactical steps necessary to help you reach your goals. Together, we will help set specific student learning targets and develop a focused plan to support instruction and get results!

### PHASE 02 APPLICATION

#### Implement the Plan with Coaching, Courses, and Strategic Support

From one-on-one coaching to multi-day and single-day courses, Math Solutions has the targeted professional learning that leaders and teachers need to implement effective math instruction for all students in Grades PreK–12.

### PHASE 03 MONITOR PROGRESS

#### Review and Analyze Progress

The Math Solutions team helps you measure results and analyze student progress data to ensure that school improvement plans are moving forward successfully.

### PHASE 04 MEASURE RESULTS

#### Measure Results and Ensure Sustainable Success

With data to measure and maintain performance, Math Solutions is the ultimate partner for long-term math achievement.