

**Build Essential Math Concepts and Skills Through Children's Literature!**



**"Children's books help students bring to mathematics the wonder they enjoy from reading."**

*—Marilyn Burns*



**Kindergarten to Grade 6**

# Bring Math Alive Through Literature . . .



One of today's most highly respected mathematics educators, Marilyn Burns is the creator and founder of Math Solutions Professional Development, dedicated to the improvement of math instruction in Grades K-6.

For more than 40 years, Ms. Burns has taught children, led in-service workshops, written professional development publications for teachers and administrators, created staff development videotapes, and written books for children. She teaches regularly in classrooms across the nation as an essential way of developing and testing new ideas and materials.

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**Y**ou've always known **Literature** opens new worlds... Now use stories to open the world of **Mathematics**. Developed by America's leading math educator, The **Marilyn Burns Classroom Math Library** delights children with authentic literature while developing concepts and skills necessary to make meaning of mathematics.

Using literature to teach math helps teachers, too. Even if math is not your favorite subject, a literature-based approach will invigorate your enthusiasm by building on the strengths you already possess in language arts.

Each book uses an appealing story line to develop mathematical concepts. Captivating titles enable teachers to launch skills and explore concepts. The Marilyn Burns Classroom Math Library:

- is rich in engaging content and illustrations.
- addresses the most important grade level specific math standards.
- builds students ability to think, reason and solve problems.

“Children’s books help lift math off textbook pages and spark children’s mathematical imaginations.”

—Marilyn Burns

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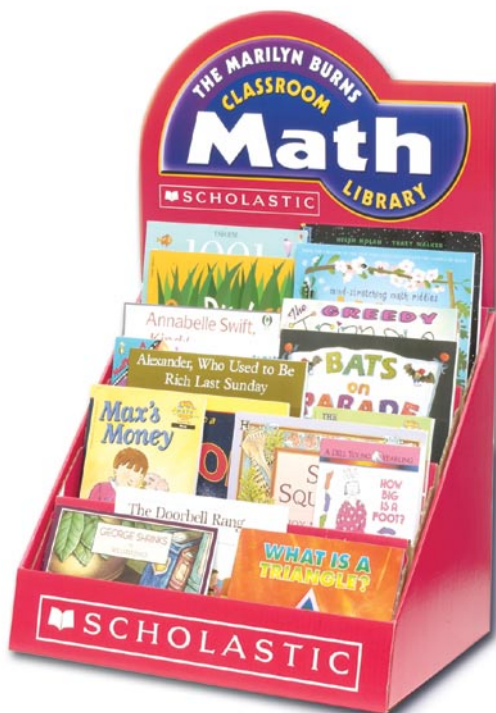
# While Teaching Essential Concepts and Skills

Each book in the math library was personally chosen by Marilyn Burns based on its significance in teaching mathematical concepts and skills.

From counting to addition subtraction, multiplication, division, and fractions, lessons address the three essential aspects of arithmetic instruction: computation, number sense, and problem solving.

Each grade level library includes:

- 45 real-aloud trade books — 25 unique titles plus four copies of each of five of the titles to use for small group activities or math centers.
- A Teacher Handbook — explains how to use each book as a basis for a math lesson.



Grade 3 Library



The *Marilyn Burns Classroom Math Libraries* mark a new collaboration between **Math Solutions Professional Development**, founded by Marilyn Burns, and **Scholastic Inc.** By working together, both organizations are striving to provide teachers with the important instructional help needed to improve their classroom practice and increase student learning.

Math Solutions offers the professional development support that K–8 teachers need to be effective teachers of mathematics, including a Math and Literature inservice that helps teachers see how using children's literature can enrich and connect with their overall mathematics instruction.

For more than 20 years, Math Solutions has provided educators with face-to-face inservice, professional resources, videos, and more. A full description of all the inservice, on-site coaching, and more than 60 professional resources is available online at [www.mathsolutions.com](http://www.mathsolutions.com) or by calling Math Solutions at (800) 868-9092.

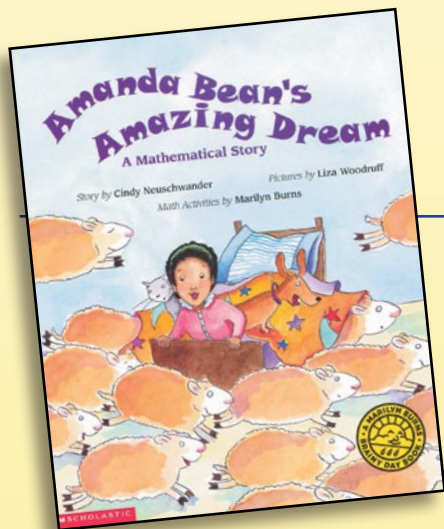
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# TEACHER HANDBOOK

Each Marilyn Burns Classroom Math Library includes a grade-level Teacher Handbook that provides 25 standards-based, title-specific lessons covering essential math concepts and skills. Written by Marilyn Burns, each lesson strengthens instructional strategies used to teach mathematics and reinforce critical thinking, computation, number sense, and problem solving skills.

## FEATURED SAMPLE BOOK:

*Amanda Bean's Amazing Dream*  
by Cindy Neuschwander



## EACH LESSON INCLUDES:

### 1 MATH STANDARD

Each lesson aligns with one or more of the standards for mathematics.

### 2 MATH TOPIC

Each library addresses 12 to 18 grade-level appropriate math topics. (Some books cover multiple topics.)

## Amanda Bean's Amazing Dream

By Cindy Neuschwander, Illustrated by Liza Woodruff

### 1 MATH STANDARD

Number and Operation

### 2 MATH TOPIC

Multiplication

### 3 CONNECTING TO YOUR CURRICULUM

Introduces or reinforces the concept of multiplication.



### 4 About the Book

Amanda Bean loves to count anything and everything. But when it comes to learning multiplication at school, Amanda isn't convinced and continues to count one by one—from the tiles on her countertop to books on the library's shelves. She soon realizes counting this way is slow and arduous. But after falling asleep counting sheep, she has an amazing dream that reveals that multiplying is another—and faster—way of counting. Amanda promises herself she'll learn to multiply—and never again count sheep.

### 5 The Lesson Summary

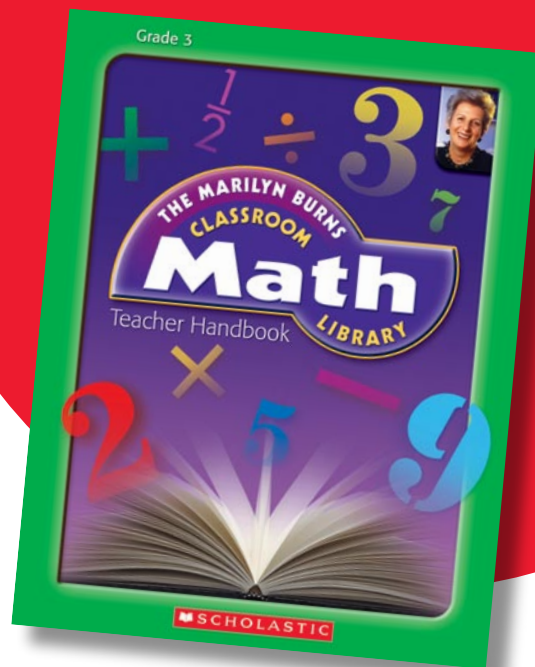
Ask students to suggest different ways to count the objects shown on the pages in the book. Some pages present rectangular arrays and others present objects in equal size groups, giving students experience with both ways to think about multiplication. Record their computations on the board or on chart paper. This lesson may need more than one class period to complete.

### 3 CONNECTING TO YOUR CURRICULUM

Elaborates on the math topic addressed, showing how it connects to the math curriculum.

### 4 ABOUT THE BOOK

Provides a quick summary of the featured children's book.



### 5 THE LESSON SUMMARY

Gives a general overview of the lesson and the topic(s) it will cover.

### 6 THE LESSON

Detailed instructions guide teachers through each step of the lesson, including instructional strategies that introduce, develop, and reinforce the teaching of mathematics.

### 7 FOLLOW UP

Extends the lesson with enrichment activities, hands-on experiences, problem-solving activities, and individual and small-group learning exercises.

### 6 The Lesson

After reading the story, revisit each of the pages and talk with students about different ways to count objects. On the first page, for example, the illustration of the building on the far left shows six large windows, each with a six-by-three array of smaller panes. Ask children, "How many panes are in each window?"

As volunteers share their answers with the class also have them explain their reasoning. Continue until all students who want to share an idea have had the chance to do so. This helps support the idea that there's more than one way to solve a math problem. Plus, children benefit from hearing other ideas.

To connect students' ideas to standard mathematical notations, record each of their suggestions on the board or on chart paper. Children's methods may include adding three sixes, adding six threes, skip counting by sixes, skip counting by threes, or multiplying:

$$6 + 6 + 6 = 18$$

$$3 + 3 + 3 + 3 + 3 + 3 = 18$$

$$6, 12, 18$$

$$3, 6, 9, 12, 15, 18$$

$$6 \times 3 = 18$$

$$3 \times 6 = 18$$

Next continue with other questions from the same pages. For example, ask:

- How many windows are there on the second building from the left?
- How many windowpanes are in each?
- How many windowpanes are there altogether in that building?

On the page where Amanda is in the bakery, you can ask:

- How many brownies or cookies are on the bakery shelves?
- How many cakes are in the display cabinet?
- How many stripes are there on all the loaves of bread?

On the page where Amanda counts in the kitchen at home, you might ask:

- How many tiles are on the counter?
- How many pickles are in the jars?
- How many pieces of popcorn are in the bowl?

Popcorn in a bowl isn't organized in any particular way that makes multiplication useful. Talk with students about how they might organize popcorn by twos, fives, and in other ways.

Each page offers multiple opportunities for children to count objects in different ways.

### 7 Follow Up

- Don't feel you have to present all of the problems from all of the pages at one sitting. Revisit the book multiple times. Let students' interest and attention be the gauge.
- On some pages, rather than posing problems, you might ask, "What math problems do you think we might solve on this page?"

# KINDERGARTEN

Children's early educational experiences influence them throughout their school years. With a solid foundation in basic skills and concepts, the **Marilyn Burns Classroom Math Library** for Kindergarten helps children develop positive relationships with math from the start.

CONCEPTS/SKILLS	SAMPLE TITLES
Bigger, Smaller	<i>A Pig Is Big</i>
Counting	<i>1 2 3 Book</i>
Counting Backward	<i>Dreaming</i>
Counting	<i>Fiesta!</i>
Counting Backward, Subtraction	<i>Five Little Monkeys Jumping on...</i>
Counting Backward, Subtraction	<i>Five Little Monkeys Sitting in a Tree</i>
Counting, Adding Doubles	<i>George's Store at the Shore*</i>
Counting	<i>Good Night, Gorilla</i>
Counting, Graphing	<i>Gray Rabbit's 1, 2, 3</i>
Counting, Addition, Subtraction	<i>Let's Count it Out, Jesse Bear</i>
Counting, Addition	<i>Let's Go Visiting</i>
Counting Backwards	<i>Monster Math*</i>
Addition	<i>Monster Math Picnic</i>
Addition	<i>Monster Musical Chairs</i>
Shape Recognition, Graphing	<i>Pancakes, Crackers, and Pizza*</i>
Counting, Patterns	<i>Puppies in the Snow</i>
Counting, Addition, Subtraction	<i>Rooster's Off to See the World</i>
Counting Backward, Word Problems	<i>Ten Little Bears*</i>
Counting Backward, Addition	<i>Ten Little Fish</i>
Counting Backward, Time	<i>Ten, Nine, Eight</i>
Counting Backward	<i>Ten Timid Ghosts</i>
Counting	<i>Trick or Treat Countdown*</i>
Shape Recognition	<i>What Is a Triangle?</i>
Shape Recognition	<i>What Is Round?</i>
Shape Recognition	<i>What Is Square?</i>

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# K



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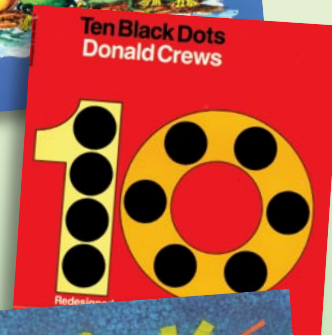
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# GRADE 1

Effective math programs incorporate young children's knowledge and interests. The **Marilyn Burns Classroom Math Library** for Grade 1 uses children's prior knowledge and experiences to extend their understandings of essential math concepts and fundamental skills.

CONCEPTS/SKILLS	SAMPLE TITLES
Counting, Time	<i>10 Minutes Till Bedtime</i>
Addition, Subtraction	<i>Cats Add Up!</i>
Addition, Subtraction	<i>Fat Frogs on a Skinny Log</i>
Counting, Starting	<i>Feast for 10</i>
Counting	<i>Icky Bug Counting Book</i>
Addition, Money	<i>Jelly Beans for Sale*</i>
Counting, Addition, Subtraction	<i>Mouse Count</i>
Addition	<i>One More Bunny</i>
Counting, Number Sense	<i>One Monday Morning</i>
Addition	<i>Quack and Count</i>
Skip Counting	<i>Ready or Not, Here I Come!</i>
Shape Recognition	<i>Sea Shapes</i>
Ordinal Numbers	<i>Seven Blind Mice</i>
Shape Recognition	<i>Shape of Things</i>
Shape Recognition	<i>Shape Space*</i>
Addition	<i>Splash</i>
Counting, Addition	<i>Ten Black Dots</i>
Counting, Addition, Subtraction	<i>Ten Red Apples</i>
Counting Backward, Subtraction	<i>Ten Sly Piranbas*</i>
Counting, Addition, Subtraction	<i>Trick-or-Treat!</i>
Graphing, Number Patterns	<i>Two Eyes, a Nose, and a Mouth</i>
Shape Recognition	<i>When a Line Bends... A Shape Begins*</i>
Counting, Ordinal Numbers, Addition	<i>One, Two, Skip a Few*</i>
Addition, Weight	<i>Just a Little Bit</i>
Counting, Place Value	<i>From One to One Hundred</i>

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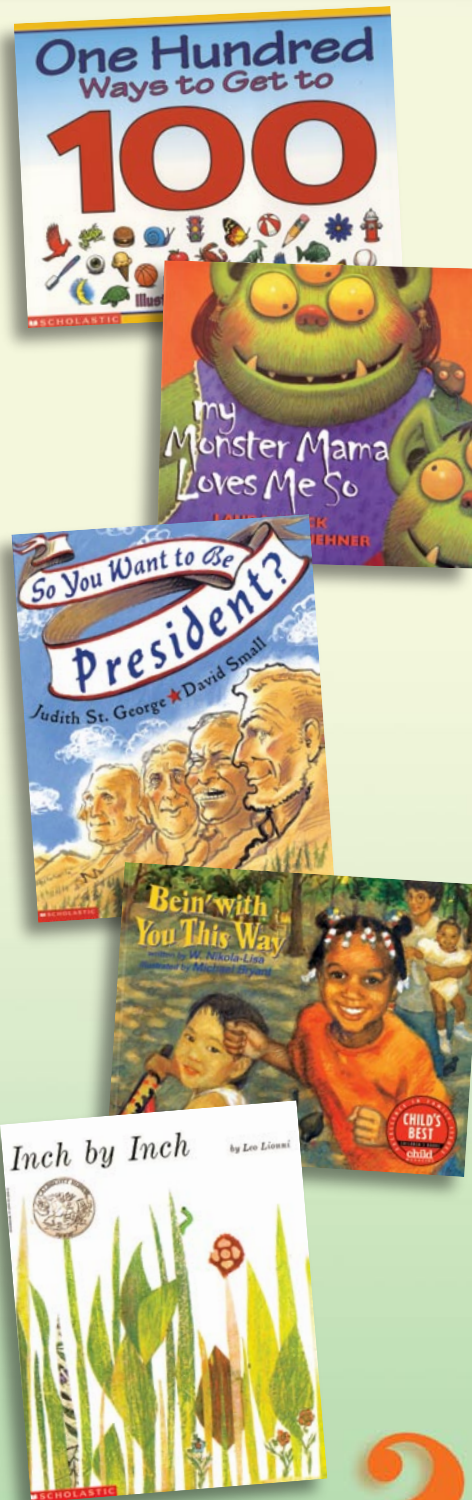
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# GRADE 2

Teachers can support children's mathematical development by providing rich language environments, encouraging exploration, and valuing each child's point of view. The **Marilyn Burns Classroom Math Library** for Grade 2 helps teachers achieve these aims by combining thought-provoking literature and complex mathematical reasoning.

CONCEPTS/SKILLS	SAMPLE TITLES
Addition, Number Sense	<i>10 for Dinner</i>
Place Value, Addition	<i>1001 Animals to Spot</i>
Number Sense, Skip Counting	<i>100<sup>th</sup> Day Worries</i>
Addition, Number Sense	<i>12 Ways to Get to 11</i>
Addition, Money	<i>A Quarter From the Tooth Fairy</i>
Permutations	<i>A Three Hat Day</i>
Graphing	<i>Bein' With You This Way</i>
Length	<i>Biggest, Strongest, Fastest*</i>
Addition, Subtraction	<i>Chrysanthemum</i>
Skip Counting, Number Patterns	<i>How Many Feet in the Bed?</i>
Length	<i>Inch by Inch</i>
Place Value	<i>King's Commissioners</i>
Addition	<i>Math Fables</i>
Place Value, Number Sense	<i>More Than One</i>
Doubles	<i>My Monster Mama Loves Me So</i>
Addition	<i>Napping House</i>
Number Sense, Skip Counting	<i>One Hundred Ways to Get to 100</i>
Division, Number Sense, Shapes	<i>One Hungry Cat</i>
Number Sense	<i>Only One*</i>
Fractions	<i>Pizza Pizzaz</i>
Shapes	<i>Round Is a Mooncake</i>
Sorting, Graphing	<i>So You Want to Be President?</i>
Addition, Number Sense	<i>Stay in Line*</i>
Even Numbers	<i>Underwater Counting*</i>
Addition, Multiplication	<i>What Comes in 2's, 3's, &amp; 4's?*</i>

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# 2



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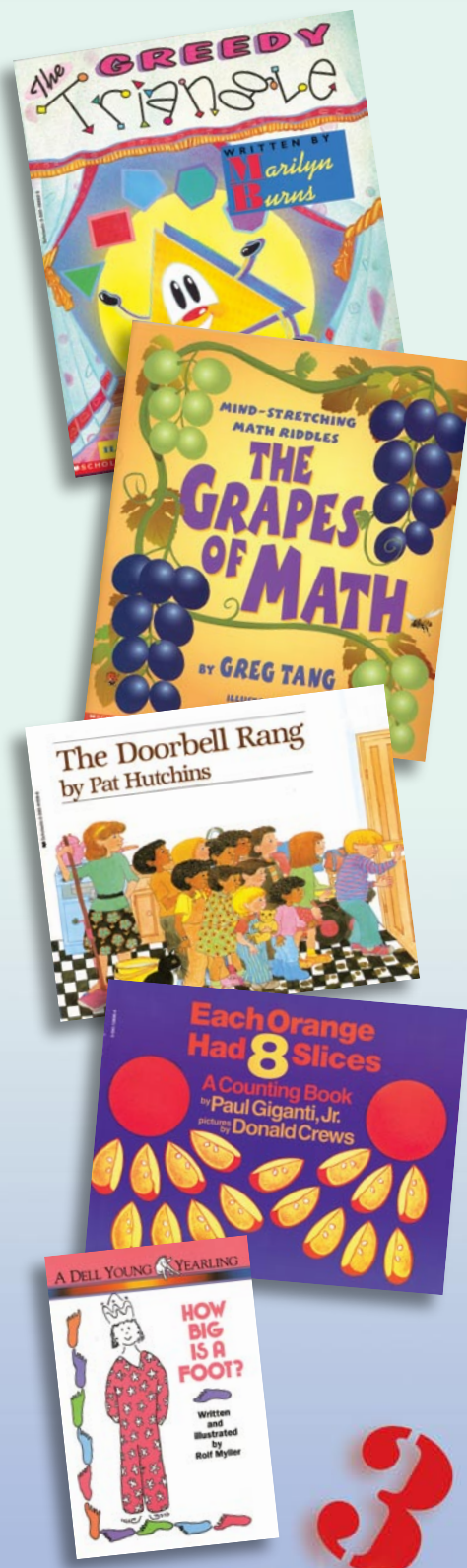


# GRADE 3

Grade 3 students need to develop the thinking, reasoning, and problem-solving skills crucial to upper-grades mathematics. The **Marilyn Burns Classroom Math Library** for Grade 3 helps students cultivate the skills to solve increasingly complex problems.

CONCEPTS/SKILLS	SAMPLE TITLES
Money, Addition, Subtraction	<i>Alexander, Who Used to be Rich...</i>
Multiplication	<i>Amanda Bean's Amazing Dream</i>
Money, Addition, Subtraction, Multiplication, Division	<i>Annabelle Swift, Kindergartner</i>
Addition, Multiplication	<i>Bats on Parade</i>
Multiplication	<i>Best of Times</i>
Place Value	<i>Count to a Million*</i>
Division	<i>The Doorbell Rang</i>
Multiplication	<i>Each Orange Had 8 Slices*</i>
Fractions	<i>Eating Fractions</i>
Number Sense	<i>512 Ants on Sullivan Street</i>
Proportional Reasoning, Fractions, Length	<i>George Shrinks*</i>
Fractions	<i>Give Me Half</i>
Addition, Multiplication, Number Sense	<i>The Grapes of Math</i>
Polygons	<i>The Greedy Triangle</i>
Length	<i>How Big Is a Foot?</i>
Estimation, Large Numbers	<i>How Much, How Many, How Far...*</i>
Addition, Subtraction, Multiplication	<i>Math for All Seasons</i>
Money, Addition	<i>Max's Money</i>
Addition, Mental Computation	<i>Night Noises</i>
Addition	<i>One Duck Stuck</i>
Multiplication	<i>One Hundred Hungry Ants</i>
Place Value, Addition	<i>1001 Things to Spot in the Sea</i>
Addition, Subtraction, Money	<i>Pigs Will Be Pigs</i>
Multiplication, Square Numbers	<i>Sea Squares</i>
Skip Counting, Addition, Multiplication	<i>Spunky Monkeys on Parade*</i>

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\* Library includes 5 copies of this title

# GRADES 4–6

**M**ore than 75% of fourth graders say they like math. The **Marilyn Burns Classroom Math Library** for Grades 4–6 makes math understandable and enjoyable to keep students engaged while learning skills and concepts they need to succeed in the upper-grades.

CONCEPTS/SKILLS	SAMPLE TITLES
Addition	<i>\$1.00 Word Riddle Book</i>
Number Sense	<i>A Million Fish... More or Less</i>
Subtraction, Proportional Reasoning, Length, Weight	<i>The Amazing Book of Mammal Records*</i>
Properties of Numbers	<i>Among the Odds &amp; Evens</i>
Multiplication	<i>Anno's Mysterious Multiplying Jar</i>
Properties of Shapes, Tessellations	<i>Cloak for the Dreamer</i>
Addition, Multiplication, Average, Length	<i>Counting Crocodiles</i>
Length, Proportional Reasoning	<i>Cut Down to Size at High Noon*</i>
Coordinate Graphing	<i>Fly on the Ceiling</i>
Whole Number Computation, Number Sense	<i>How Much Is a Million?</i>
Whole Number Computation, Money, Shapes, Logical Reasoning	<i>I Hate Mathematics! Book*</i>
Length, Proportional Reasoning	<i>If You Hopped Like a Frog</i>
Length, Proportional Reasoning	<i>Is a Blue Whale the Biggest Thing There Is?</i>
Length, Proportional Reasoning	<i>Jim and the Beanstalk</i>
Frequency Distribution	<i>Martha Blab Blab</i>
Whole Number Computation, Number Sense	<i>Math Appeal</i>
Whole Number Computation, Algebraic Equivalence, Logical Reasoning	<i>Math for Smarty Pants</i>
Addition, Number Sense	<i>One Grain of Rice</i>
Whole Number Computation	<i>One Tiny Turtle*</i>
Division, Remainders	<i>Remainder of One</i>
Roman Numerals	<i>Roman Numerals 1 to MM</i>
Area, Perimeter	<i>Spaghetti and Meatballs for All</i>
Graphing	<i>Tiger Math: Learning to Graph*</i>
Graphing, Averages	<i>Tikki Tikki Tembo</i>
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# ORDER FORM

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