

Toads And Tessellations

Charlesbridge Math Adventures

A colorfully illustrated biography of the Greek philosopher and scientist Eratosthenes, who compiled the first geography book and accurately measured the globe's circumference.

Each week the residents of Chee take a portion of their bountiful crops to the wizard who lives on the hill. One week the Pied Piper decides that the wizard doesn't deserve his full portion. The next day two rabbits appear in a field. The day after that, there are two more rabbits. Each day the number of rabbits increases and they are eating everything in their path. It is up to a young girl named Amanda to save Chee's crops by figuring out the pattern by which the rabbits multiply.

A ribbiting math adventure! After being banished to the Abyss of Zero in MULTIPLYING MENACE: THE REVENGE OF RUMPELSTILTSKIN, Rumpelstiltskin is back, and he's stirring up more trouble than ever. Together with his sidekick, a witch named Matilda, Rumpelstiltskin plots his revenge on Peter and uses his magical powers to divide the kingdom into frogs. Peter and his dog, Zero, must locate the Great Multiplier and find a solution that will break the Great Divide before Rumpelstiltskin has a chance to combine the two mighty math sticks. Can Peter once

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again save the kingdom in time, or will it meet a green and warty fate? Young readers will fall in love with this math adventure and learn all about dividing by whole numbers and fractions, as well as division rules for equations involving zero. Beautifully rendered illustrations will grab readers' attention as they learn basic math skills in a fun and inventive way. Back matter includes a summary of the basics of division.

What is sixth grade math? The goal is to become more fluent in arithmetic (including fractions, decimals, percents, exponents, and negative numbers) and also to prepare prealgebra skills. Not all schools and teachers around the world cover the same topics in the same depth in 6th grade, yet at this stage the student is generally learning a variety of arithmetic and prealgebra skills. This sixth grade math workbook includes: order of operations ratios and proportions prime factorization (including factor trees and ladder diagrams) fractions, decimals, and percents data analysis (including histograms, box-and-whisker, stem-and-leaf, and dot plots) negative numbers exponents and squareroots geometric figures and the coordinate plane direct and inverse relationships a first introduction to working with variables financial mathematics and other sixth grade math and prealgebra skills The author, Chris McMullen, Ph.D., has over twenty years of experience teaching math skills to physics students.

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He prepared this workbook to share his strategies for applying arithmetic and prealgebra skills.

Here are 51 interesting, true-to-life situations to motivate teenagers to apply math skills for solving everyday problems. For example, in the story "The Challenge" students use decimals and averages as they compare rival football teams' statistics. In "An Interesting Loan", they get practical experience working with money as they help Mike figure out how to pay for a new dirt bike. Each reproducible story is followed by three increasingly difficult groups of problems that focus on the same math topic, making it easy for students of all ability levels to develop the math skills being stressed in the lesson.

A CARP FOR KIMIKO is the story of a young girl's struggle against the strong current of tradition. Every year on Children's Day in Japan a kite in the shape of a carp is flown for each boy in the family. Kimiko is a little girl who desperately wants an orange, black, and white calico carp kite of her own to fly on this holiday. Kimiko's parents remind her that there is a holiday just for girls? Doll's Festival Day, but this does not stop Kimiko from dreaming about and wishing for her very own carp. The magical ending achieves the impossible? Kimiko gets what she longs for without breaking tradition. Katherine Roundtree's beautiful illustrations evoke the wonder and excitement of childhood, which will charm readers of all cultures.

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Many of the things you know about science began with Archimedes. What was so unusual about a man who spent almost his whole life on one small island, more than two thousand years ago? Many things about Archimedes were unusual. His mind was never still, but was always searching for something that could be added to the sum of things that were known in the world. No fact was unimportant; no problem was dull. Archimedes worked not only in his mind, but he also performed scientific experiments to gain knowledge and prove his ideas.

"Tiny Tessa Truman-Ling saw patterns in the coolest things!" Join Tessa in this children's book to discover the wonderful world of tessellations!

Join Sir Cumference and the gang for more wordplay, puns, and problem solving in the clever math adventure that introduces readers to the concept of fractons. Sir Cumference and Lady Di discover "Fracton numbers" while purchasing cloth and cheese at the Fracton Faire. While two-fourths may seem like the same as one-half, in truth it denotes two parts of one-half, or two quarters of the whole. But the real mystery is the fact that items at the fair keep disappearing, and Sir C, Lady Di, and the Earl of Fracton must set a numeric trap for the thief, teaching an important lesson along the way about the comparative size of fractions. Puns--both literal and visual--abound in this fun adventure story with beloved characters and a solid pedagogical

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foundation. A fun little math adventure that introduces the basics of fractions to early elementary audiences. — School Library Journal

A showdown between two barbers in the frontier town of Cowlick leads them to realize new uses for scale drawing.

Join Sir Cumference, Lady Di of Ameter, and their son Radius for wordplay, puns, and problem solving in this geometry-packed math adventure. King Arthur was a good ruler, but now he needs a good ruler. What would you do if the neighboring kingdom were threatening war? Naturally, you'd call your strongest and bravest knights together to come up with a solution. But when your conference table causes more problems than the threat of your enemy, you need expert help. Enter Sir Cumference, his wife Lady Di of Ameter, and their son Radius. With the help of the carpenter, Geo of Metry, this sharp-minded team designs the perfect table conducive to discussing the perfect plan for peace. The first in Sir Cumference series, **SIR CUMFERENCE AND THE FIRST ROUND TABLE** makes math fun and accessible for everyone.

Readers will put their multiplication skills to use in this clever math adaptation starring the fairy-tale favorite, Rumpelstiltskin. It's been 10 years since the queen defeated Rumpelstiltskin and now he's back to collect his payment from years before. He causes a stir in the kingdom by making mischief with his

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multiplying stick and threatens to do far worse if the debt is not repaid. It's up to Peter, the young prince, to take possession of the Rumpelstiltskin's magical multiplying stick and learn how to use it—and multiply both whole numbers and fractions-- in order to restore peace to the kingdom. A perfect mix of math, fairy-tale, and fun, *The Multiplying Menace* will get STEM/STEAM readers excited to solve the adventure one number at a time.

Math activities located on back of dust jacket.

Crack the case with George Cornelius Factor in this entertaining math adventure that introduces simplified and reduced fractions with equal parts intrigue and humor. When a valuable fraction goes missing, George Cornelius Factor (a.k.a. GCF) vows to track it down. Knowing that the villainous Dr. Brok likes to disguise his ill-gotten fractions, GCF invents a Reducer—half ray gun, half calculator— that strips away the disguise, reducing the fraction to its lowest common denominator and revealing its true form. With the Reducer in hand, George seeks out Dr. Brok in hopes of retrieving the missing fraction. Back matter includes more detail on simplifying, or reducing, fractions.

Join Sir Cumference, Lady Di of Ameter, and their son Radius for wordplay, puns, and problem solving in this angle-packed math adventure. In the third installment of the beloved Sir Cumference series, Radius must prove himself on his quest for

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knighthood by rescuing a king. Sent off with the family medallion for luck, Radius dodges dangers and dragons. The ultimate challenge lies in a mysterious castle with a maze of many angles. Read Along or Enhanced eBook: A clever introduction to place value. Sir Cumference and Lady Di planned a surprise birthday party for King Arthur, but they didn't expect so many guests to show up. How many lunches will they need? And with more guests arriving by the minute, what about dinner? Sir Cumference and Lady Di have to figure out a quick way to count the guests to bring order to the party. Sir Cumference and his friends have been entertaining young and old alike for years as they introduce important math concepts with clarity and humor.

Farmer Worth discovers that a special tree on his farm produces different kinds of money, depending on what animal fertilizer he uses.

Waking up one morning to find a talking cat on his head, Ethan is informed that the cat will not leave until he - Ethan - wins a game of probability.

Suppose that Alice had fallen into a wonderland where pasta was the only common denominator. In this clever parody of Lewis Carroll's classic tale, Alexandra Wright presents a mathematically aware Alice whose adventures are an appetizing combination of numbers, humor, and fun. With the Math Hatter dishing it up, the Adder using his noodle, and the Quantum Cat adding spice, arithmetic is full of pastabilities. Based on the Peabody Award-winning podcast, this tech-filled adventure series pits intrepid Mars Patel and his outcast

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friends against a brilliant, enigmatic billionaire as they race to figure out why kids are disappearing from their school. Mars Patel's friend Aurora has disappeared! His teachers are clueless. His mom is stressed out about her jobs. But Mars refuses to give up—after all, his own dad disappeared when Mars was a toddler, before he and Ma moved to Puget Sound from India. Luckily, Mars has a group of loyal friends eager to help—smart Toothpick, strong and stylish JP, and maybe-telepathic Caddie. The clues seem to point toward eccentric tech genius (and Mars's hero) Oliver Pruitt, whose popular podcast now seems to be commenting on their quest! But when the friends investigate Pruitt's mysterious, elite school, nothing is as it seems—and anyone could be deceiving them. Slick science, corporate conspiracies, and an endearingly nerdy protagonist make this first book in the series a fresh, exciting sci-fi adventure.

Master essential algebra skills through helpful explanations, instructive examples, and plenty of practice exercises with full solutions. Authored by experienced teacher, Chris McMullen, Ph.D., this algebra book covers: distributing and factoring the FOIL method cross multiplying quadratic equations and the quadratic formula how to combine like terms and isolate the unknown an explanation of what algebra is a variety of rules for working with exponents solving systems of equations using substitution, simultaneous equations, or Cramer's rule algebra with inequalities The author, Chris McMullen, Ph.D., has over twenty years of experience teaching math skills to physics students. He prepared this workbook of the Improve Your Math Fluency series to share his strategies for solving algebra problems.

In ancient Greece, young Pythagoras discovers a special number pattern (the Pythagorean theorem) and uses it to solve problems involving right triangles.

Scientists are often presented as old men in white coats, but

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this series shows that great discoveries have been made by people of all ages and cultures — some are young people, and many are female.

When Zachary forgets his homework assignment, readers will be amazed at what he is able to accomplish with what he finds in his pocket. Each week he takes on a different math concept (length, width, area, perimeter) with projects that include a mobius strip, a paper frame, and a light show. Instructions for doing Zach's projects are included at the end. A positive and affirming celebration of differences, diversity, and individuality through a close look at hair of all colors, textures, and styles. How do you wear your hair -- braided with beads, blowing in the breeze, or short as short can be? In this lively look at locks, Virginia Kroll shows us that no matter how you wear it, hair is an important part of you. Hair is our most versatile feature and kids everywhere have created their own unique styles. Exquisite paintings of kids from many cultures show us the beauty, splendor, and wonder of all kinds of hairstyles for all kinds of kids from around the world.

Zero is lonely in Digitaria. He can't play Addemup with the other numbers, because he has nothing to add. What's a digit to do? Join Zero as he goes on a journey to discover his place.

For fans of the Sir Cumference series with coordinate geometry on their mind, here is the seventh installment in this fun look at math and language. While riding through the forests of Angleland, cousins Per and Radius realize they are lost and are desperate for a map to guide them home. Soon they come across a mysterious house in the hills. Inside they find a map to a treasure belonging to Xaxon Yellowbearyd, the fiercest Viking warrior of his time. Per and Radius must decode the strange numbered grid on the map, while trying to steer clear of the pack of bungling bandits who are on their

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tail. Will they find the treasure in time? Cindy Neuschwander delivers yet another intriguing math adventure featuring the well-known characters of Angleland. Readers will enjoy following Per and Radius in their quest while learning how coordinate geometry relates to everyday life. Wayne Geehan's beautiful illustrations offer a bit of comic relief, while also clearly demonstrating the concepts explored in the story.

This is the story of a woman who dared to dig, explore, and discover. This is the story of Dinosaur Lady. Mary Anning loved scouring the beach near her home in England for shells and fossils. She fearlessly climbed over crumbling cliffs and rocky peaks, searching for new specimens. One day, something caught Mary's eye. Bones. Dinosaur Bones. Mary's discoveries rocked the world of science and helped create a brand-new field of study: paleontology. But many people believed women couldn't be scientists, so Mary wasn't given the credit she deserved. Nevertheless, Mary kept looking and learning more, making discoveries that reshaped scientific beliefs about the natural world. Dinosaur Lady is a beautiful and brilliant picture book that will enlighten children about the discovery of the dinosaurs and the importance of female scientists. It also includes a timeline of Mary Anning's life and lots of fantastic fossil facts!

Enzo is the son of a great magician, however unlike his father, his spells create chaos instead of order. What really interests Enzo, more than books about magic, are books by and about the lives of famous physicists and astronomers like Galileo Galilei and Johannes Kepler. Enzo dreams not of becoming a magician, but a mathematician instead. When Tessel, the village shoemaker, is called upon to make twelve identical shoes out of only one piece of leather, Aida, the shoemaker's sister, goes to Enzo's father for some magic to help her brother. With Enzo's father out of town at a magic

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convention, it's up to Enzo to help Aida and Tessel out of their predicament. A spell snafu leads Enzo and Aida to a method of forming patterns without gaps or overlaps, and they discover that math, not magic, may be the answer to their problem. Sharon Morissette's accessible text introduces readers to the concept of tessellations, while Philomena O'Neill's illustrations offer a clear visual to what tiling is—children will enjoy finding the tessellations hidden throughout the images. Back matter includes a glossary and notes about tessellations, Galileo, and Kepler.

The biggest mathematical mystery in nature—Fibonacci numbers! Named after a famous mathematician, the number pattern is simple: 1, 1, 2, 3, 5, 8, 13. . . . Each number in the sequence comes from adding the two numbers before it. What's the mystery? The pattern crops up in the most unexpected places. You'll find it in the disk of a sunflower, the skin of a pineapple, and the spiral of a nautilus shell. No one knows how nature came up with the sequence. Sarah C. and Richard P. Campbell introduce the Fibonacci sequence through a series of stunning photographs in this ALA Notable Children's Book. Young readers will soon be seeing nature through new eyes, looking for Fibonacci numbers in daisies, pinecones, leaf patterns, seashells, and more.

Two pet rabbits sneak out of their cage at night to tidy the house and do other chores so that their owners will have more time to play with them.

"...A delightful novel, well written, very much in the mood of Baum's original series, illustrations & all."--Piers Anthony, author of the Xanth Series. "A satisfying synthesis of Baum's classic style & Einhorn's modern, joyfully inventive excursions into the absurd."--Arthur Kopit, playwright. "Paradox in Oz" by Edward Einhorn is a sequel to Baum's Oz series, honoring the 100th anniversary of "The Wizard of Oz," appropriate for all ages & beautifully illustrated by Eric Shanower. Watch out,

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Harry Potter!--here comes "Paradox in Oz," a stupendous, full-length fantasy brimming with magic & time travel. Ozma, girl ruler of Oz, must restore the enchantment that keeps her people young. A lovable but puzzling Parrot-Ox carries Ozma back through time to seek the source of the enchantment. Ozma meets strange versions of her closest friends in an alternate timestream--Glinda, the Wizard, the Cowardly Lion, even Ozma herself! Readers will thrill with amazement as Ozma uncovers the final jaw-dropping secret. This book ends with a bang!

You don't have to love or even like spiders to love this book. In fact, if you really don't like spiders, you'll have a lot in common with the book's narrator, who despite his/her best intentions, cannot help smooshing them! This fresh and very funny non-fiction picture book shares lots of fascinating facts about spiders-like a single spider can eat 50 pounds of bugs in a year!--and in an entirely captivating way. If I'm Trying to Love Spiders doesn't cure your spider phobia, it'll at least make you appreciate how amazing they are...and laugh a lot as you learn about them.

You had better not monkey around when it comes to place value. The monkeys in this book can tell you why! As they bake the biggest banana cupcake ever, they need to get the amounts in the recipe correct. There's a big difference between 216 eggs and 621 eggs. Place value is the key to keeping the numbers straight. Using humorous art, easy-to-follow charts and clear explanations, this book presents the basic facts about place value while inserting some amusing monkey business.

Julie Ellis and Phyllis Hornung Peacock team up once

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again to explore Pythagorean ratios in this humorous sequel to WHAT'S YOUR ANGLE, PYTHAGORAS? Pythagoras and his cousins want to win a music contest, but first they must figure out how to play their instruments in tune, something that's never been done before. While trying to fix the problem, Pythagoras makes an important discovery--notes that sound pleasant together have a certain mathematical relationship. When Pythagoras applies this ratio to his cousins' pipes and lyres, the result is music to the ears. A story about inclusion, diversity, and the power of math to help one boy with autism thrive among his peers. Juan claps his hands to get his Jitters out. They make his tummy swoosh and swirl. His Jitters happen when there are too many people, too much noise, or too many changes to his day. Juan doesn't like surprises. Tomorrow there is an athletic event planned at school, which makes Juan very nervous. But his teacher has the perfect solution: math--Juan's favorite subject! Counting, sorting, and matching help Juan calm his Jitters. By making math part of the day's athletic games, and by appointing Juan the official judge, his teacher can make sure that Juan will have fun and feel included. The class is calling it the Mathletic Games! Parents of children 4 to 8 years-old can use this book to help teach kids about neurodiversity, inclusion, and the beauty in what makes every one of us unique. Teachers will find the book meets several Common Core Standards for pre-K through third grade in reading and math, and nurtures multiple domains of scholastic development. What does it mean to be equal? Mouse and her friends

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want to play tug-of-war but they can't figure out how to make teams that are equal. Nothing works until Mouse starts thinking mathematically. Wonderful illustrations capture Mouse and her animal friends from whiskers to tails.

Even for an apprentice magician Enzo is not very good--but when Tessel the shoemaker needs to use a single piece of leather to make twelve sets of shoes, Enzo finds that when magic fails, math may solve the problem.

Howard Gardner's groundbreaking theory applied for classroom use This important book offers a practical guide to understanding how Howard Gardner's theory of Multiple Intelligences (MI) can be used in the classroom. Gardner identified eight different types of intelligence: linguistic, logical, spatial, musical, bodily-kinesthetic, naturalist, interpersonal, and intrapersonal. Celebrating Every Learner describes the characteristics of each type of intelligence and follows up with ready-to-use lesson plans and activities that teachers can use to incorporate MI in their pre-K through 6 classrooms. Offers a treasury of easily implemented activities for engaging all students' multiple intelligences, from the New City School, a leading elementary school at the forefront of MI education Provides ready-to-use lesson plans that teachers can use to incorporate MI in any elementary classroom Includes valuable essays on how and why to integrate MI in the classroom Hoerr is the author of a bi-monthly column for Educational Leadership as well as the editor of the "Intelligence Connections" e-newsletter

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