

Literacy Connections from the books in our S2MART Centers

Anno's Mysterious Multiplying Jar, Masaichiro Anno

Simple text and pictures introduce the mathematical concepts of **factorials**.

At the Football Game: Learning the symbols **<, >, and =**

Photographs and simple texts discuss greater than, less than, and equal to through examples of ticket cost, scores, players and time left at a football game.

Berries, nuts and seeds, Diane L. Burns

Describes a variety of berries, nuts, and seeds that might be found on a nature walk includes identification information, **data analysis, probability and graphing**.

The Best of Times: Math Strategies that Multiply, Greg Tang

Simple rhymes offer hints on how to **multiply any number by zero through ten** without memorizing the multiplication tables.

Cheetah Math: Learning about Division from Baby Cheetahs, Ann Whitehead Nagda

Uses information about the cheetahs who live in the San Diego Zoo to teach children about **division**.

Chimp Math: Learning about Time from a Baby Chimpanzee, Ann Whitehead Nagda

Teaches children about **clocks, calendars, time lines, and time charts** through color-illustrated description of the life of Jiggs, a baby chimp in a zoo.

Giving Back, Cecilia Minden

An introduction to **personal finance** that focuses on charitable contributions, discussing how to choose a charity, giving time and money, and the benefits of volunteering and donating.

The Grapes of Math; Mind-Stretching Math Riddles, Greg Tang

Illustrated riddles introduce strategies for **solving a variety of math problems by using visual clues**.

The Great Number Rumble, Cora Lee

New student Sam is upset when his school district bans math and sets out to prove his teachers and the Director of Education that **math is important**.

The Great Pyramid of Giza: Measuring Length, Area, Volume, and Angles, Janey Levy

Photographs and text describe how math is used in determining the **length, area, volume** and angles of the Great Pyramid Giza; and compares it to the other two pyramids near it.

Grocery Shopping by the Numbers, Cecilia Minden

Explains how students can use mathematics to **save money at the grocery store**, ensure they get the freshest foods, and compare prices to make sure they are getting the most for their money.

Heads or Tails? Exploring Probability Through Games, Greg Roza

Provides an understanding of the mathematical concepts of **probability** through a series of easy-to-comprehend games.

Investing: Making your Money Work for You, Cecilia Minden

An introduction to **financial literacy**, looking at ways in which people can put their money to work for them through investing, and including notes designed to help readers identify the skills needed for success in the twenty-first century in the areas of learning and innovation, business and money, and life and careers.

Manga Math Mysteries. #1, the Lost Key: A Mystery with Whole Numbers, Melinda Thielbar

Sam, Joy and their friends from the Kung Fu School use their knowledge of mathematics and **whole numbers** to discover who stole the keys to the school and used them to steal all the Kung Fu equipment.

Manga Math Mysteries #2, the Hundred-Dollar Robbery: A Mystery with Money, Melinda Thielbar

Someone has stolen money from the soccer team's car wash earnings, and the students from Sifu Faiza's Kung Fu School must set aside their feud with the soccer players to figure out how much **money was stolen** and by whom.

Manga Math Mysteries #4, The Kung Fu Puzzle: A Mystery with Time and Temperature, Melinda Thielbar

Sam and his friends at the Kung Fu School use mathematics to **solve puzzles** about boiling water and melting glass, and figure out the secret to opening a clock that is really a lock while helping Sifu Faiza.

Math-terpieces: The Art of Problem-Solving, Greg Tang

A series of rhymes about artists and their works introduces **counting and grouping numbers**, as well as such artistic styles as cubism, pointillism, and surrealism.

Measuring at the Pond, Linda Bussell

The students in Miss Tosh's class plan a field trip to a local pond where they observe and **measure plants and animals.**

Our New Fish Tank: Learning to estimate to the nearest ones, tens, and hundreds places, Kathleen Collins

Teaches the mathematical concept of **estimating numbers** through a short story about how a group of students were able to purchase a fish tank and supplies for their classroom.

Pizza Parts: Fractions!, Linda Bussell

Elena uses **fractions** to make sure all of her party guests get their favorite slice of pizza.

Polar Bear Math: Learning About Fractions from Klondike and Snow, Ann Whitehead Nagda

Uses **charts** and recipes for bear milk prepared for two baby polar bears born in a zoo to teach about fractions.

Saving for the Future, Cecilia Minden

An introduction to personal finance and savings describe why one should save and saving strategies and provides **mathematical problems** which correlate to the text.

Sea Clocks: The Story of Longitude, Louise Borden

Presents an illustrated account of eighteenth-century Englishman John Harrison's forty-year shipwreck detectives: a quest to create a perfectly accurate sea clock that would allow sailors to **measure longitude.**

Shipwreck Detectives: Coordinate Planes, Julia Wall

An illustrated introduction to **coordinate planes** that describe how marine archeologists use coordinates to locate shipwrecks and includes a problem solving activity.

Sir Cumference and all the King's Tens: A Math Adventure, Cindy Neuschwander

When Sir Cumference and his wife, Lady Di of Ameter, host a massive surprise birthday party for the king, they must figure out a quick way to **count** all the quests that are in attendance.

Sir Cumference and the Dragon of Pi: A Math Adventure, Cindy Neuschwander

Radius, son of Sir Cumference, embarks on a quest to find the magic number known as **pi** in order to restore his father- who has been turned into a dragon.

Sir Cumference and the First Round Table: A Math Adventure, Cindy Neuschwander

A math adventure in which King Arthur finds the **perfect shape** for his table with the ideas of his wife and son, and the assistance of his knight, Sir Cumference.

Sir Cumference and the Great Knight of Angleland: A Math Adventure

To earn his knighthood, Radius must find and rescue a missing king. His father, Sir Cumference, and Lady Di of Ameter, give him a circular medallion that he uses to find his way through a maze of many **angles**.

Sir Cumference and the Isle of Immeter: Cindy Neuschwander

Young Per and her cousin Radius set out to unlock the secret of Immeter before the sea serpent finds them.

Sir Cumference and the Sword in the Cone: A Math Adventure, Cindy Neuschwander

Sir Cumference, Radius and Sir Vertex search for Edgecalibur, the sword that King Arthur has hidden in a **geometric solid**.

Space Word Problems Starring Ratios and Proportions, Rebecca Wingard-Nelson

Explores methods of solving **ratios and proportion word problems** using space examples.

Sports Word Problems Starring Decimals and Percents, Rebecca Wingard-Nelson

Explores methods of **solving decimal and percent word problems** using sports examples.

Telling Time: How to Tell Time on Digital and Analog Clocks, Jules Older

Humorous text explains the **concept of time** from seconds to hours on both analog and digital clocks, from years to millennia on the calendar.

A Trip Around the World: Using Expanded Notation to Represent numbers, Kerri O'Donnell

Explains the math **concept of expanded notation** and uses expanded notation to plan an imaginary trip.

What's Your Angle? A Math Adventure, Julie Ellis

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

Working with Fractions, David A. Adler

Shows how to **calculate and use simple fractions**, presenting examples involving everyday activities such as counting money, playing games and spitting up a pizza.

