

Mathematical Read-Aloud Book List

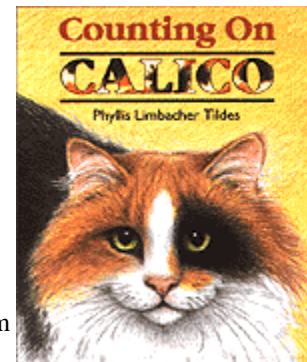
Counting

Counting is for the Birds by Frank Mazzola, Jr.

A great book to introduce both counting for 1-20 and birds. Children will count twenty colorful birds as they gather to crack seeds at the backyard feeder. A cunning cat is lurking below. What will happen to the poor, unsuspecting birds?

Counting on Calico written and illustrated by Phyllis Tildes.

As a child counts the spots on Calico the cat, the ears on her seven kittens, etc., he or she will learn much about cats and will delight, with cat lovers of all ages, in the adorable illustrations. Children learn to count from 1-20 as they learn more about their feline friends.



Five Little Monkeys Play Hide-and-Seek by Eileen Christelow

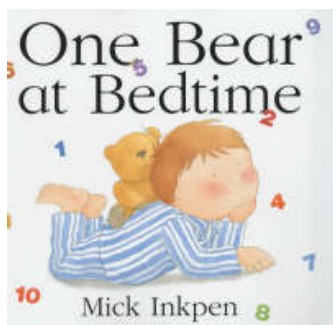
Five little monkeys try to avoid going to bed by playing hide and seek.

Follow the Line by Laura Ljungkvist

Invites the reader to visit a wide variety of places and count different objects found in each, from fire hydrants in a big city in the morning, through starfish in the ocean during the day, to babies sleeping in a country village at night.

Frog Counts to Ten by John Liebler

Left out of a game of hide-and-seek because he can't count, Frog sets out on his bicycle, meets with misfortune, and learns his numbers literally by accident. Young children will learn along with Frog as they look for the numerals cleverly hidden in the art work and count objects in the pictures.



One Bear at Bedtime by Mick Inkpen

Introduces the numbers one through ten as a little boy describes all the animals he needs to help him get ready for bed.

One Frog Sang by Shirley Parenteau

Introduces the numbers one through ten as more and more frogs join in the evening song. We count up to 10 and then back down to 1.

One Gorilla by Atsuko Morozumi

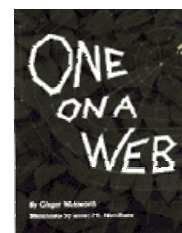
A playful gorilla makes his way through jungles, gardens, and forests full of hidden creatures waiting to be counted.

One Hundred Days of Cool by Stuart Murphy

Four students arrive on the first day of school looking cool and their teacher challenges them to keep it up as they count down one hundred days to a cool celebration.

One on a Web: Counting Animals at Home by Ginger Wadsworth.

The informative text and captivating illustrations teach children to count from 1-20 as they discover the interesting places where some fascinating creatures live.



One Less Fish by Kim M. Toft and Allan Sheather.

This book is part counting book and part cautionary tale. The book illustrates how human carelessness leads to the disappearance of twelve species of fish in Australia's Great Barrier Reef. A counting rhyme in reverse, the book begins with 12 fish and counts down one by one to 0 as the fish meet with peril in the sea. Rhymed couplets make up the text for young children. Slightly older kids will want to hear the dangers described in greater detail in accompanying paragraphs of information.

The Shopping Basket by John Birmingham

On his way to the store to get six eggs, five bananas, four apples, three oranges, two doughnuts, and a bag of chips, Steven is waylaid by several animals who demand that he give them his groceries.

Ten Apples Up On Top by Theo LeSieg

A lion, a dog, and a tiger are having a contest - can they get ten apples piled up on top of their heads? You better believe it! This first counting book works as a teaching tool as well as a funny story.

The Very Hungry Caterpillar by Eric Carle

Follows the progress of a hungry little caterpillar as he eats his way through a varied and very large quantity of food.

How Much is a Million? by David Schwartz. Pictures by Steven Kellogg.

Helps make numbers like million, billion, and trillion a bit more comprehensible to children (or anyone) through pictures and comparisons. (ex. A bowl big enough for a million goldfish would also hold a whale. Counting from one to one million would take 23 days.)

Ordinal Numbers

10 Rubber Ducks by Eric Carle

Ten rubber ducks are manufactured and loaded onto a ship, they fall overboard and we see how each is rescued while focussing on their position in the ten, e.g. 1st to 10th.

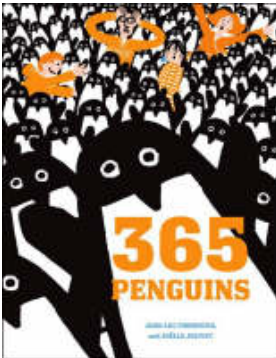
20 Hungry Piggies by Trudy Harris

The wolf from "The Three Little Pigs" shows up at a party attended by lots of piggies, but his plans for dinner are disrupted by the pigs from "This Little Piggy Went to Market."

Addition

Domino Addition by Lynette Long

Learning to add is fun when you use dominos! First learn how to use simple addition to find the total number of dots, from zero to twelve, on each domino. Then see if you can find the dominoes with each total hidden in the pictures.



365 Penguins by Jean-Luc Fromental and Joelle Jolivet

When a box containing a penguin arrives anonymously on New Year's Day, a family of four is puzzled, but as they continue to receive one penguin each day their problems--and food budget, and storage issues--are multiplied.

The 500 Hats of Bartholomew Cubbins by Dr. Seuss

Bartholomew really wants to take off his hat to the King of Didd... but how? And how many hats will he end up with?

The Great Pet Sale by Mick Inkpen

Attracted by a sale at the pet store, a boy tries to decide which animal to buy.

Hardworking Puppies by Lynn Reiser

One by one, ten energetic puppies find important jobs as dogs who help people in different ways, including by pulling sleds and saving swimmers.

Leaping Lizards by Stuart Murphy

Learn to count by 5s and 10s by counting the lizards as they arrive for a show. It's almost time for the show to begin -- but where are all the lizards? As a frantic snake looks high and low for the performers, they start to arrive, first by fives...

Safari Park by Stuart Murphy

As five cousins try to decide how to spend their one hundred tickets at the new Safari Park, readers can practice interpreting number sentences to find out how many rides they can go on.

Uno's Garden by Graeme Base

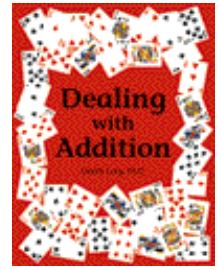
Uno finds a beautiful place, decides to live there and builds a garden, as the wildlife dwindles and the buildings and inhabitants increase, their progress is charted by multiplication and square root equations along the top of the page. A page at the end explains all the mathematics involved.

The Very Hungry Caterpillar by Eric Carle

Follows the progress of a hungry little caterpillar as he eats his way through a varied and very large quantity of food.

The M&M's™ Brand Counting Book by Barbara McGrath

Readers will be introduced to the numbers 1-12, the six colors of the candies, three primary shapes, and the sets of twelve.



Dealing with Addition by Lynette Long.

Use a deck of playing cards to teach addition skills. Besides introducing the deck of cards itself and mentioning games that people play with cards, this book includes its own game at the end that helps children have fun as they practice addition skills. There are also puzzles to work throughout the book for matching cards in different ways to reach a certain number. For example, there are ten different ways to get card combinations that add up to ten.

Subtraction

Dora's Chicks by Julie Sykes

While Dora is out looking for their breakfast all six of her chicks disappear.

Five Little Monkeys Go Shopping by Eileen Christelow

Five little monkeys go shopping for school clothes with their mama, but in spite of her warnings about not wandering off, things quickly get complicated.

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Six Chicks by Henrietta Branford

Red Hen has got six lively chicks to settle off to sleep. One by one they fall asleep.

Even and Odd Numbers

My Even Day by Doris Fisher and Dani Sneed

In this rhyming sequel to One Odd Day, the young boy awakens to find that it is another strange day now everything is even, and his mother has two heads! This time, a school field trip to the zoo is dealt with in an odd, but even-handed manner. Includes "For Creative Minds" section with fun facts and number games.

One Odd Day by Doris Fisher and Dani Sneed

A boy awakens to find everything around him is odd. He has three sleeves on his shirt, and his dog has five legs. Will his odd day end when he goes to bed that night? A great introduction to the concept of odd and even numbers that is supplemented by math teaching games.

Multiplication

365 Penguins by Jean-Luc Fromental and Joelle Jolivet

When a box containing a penguin arrives anonymously on New Year's Day, a family of four is puzzled, but as they continue to receive one penguin each day their problems--and food budget, and storage issues--are multiplied.

The Doorbell Rang by Pat Hutchins

Each time the doorbell rings, there are more people who have come to share Ma's wonderful cookies.

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Uno finds a beautiful place, decides to live there and builds a garden, as the wildlife dwindles and the buildings and inhabitants increase, their progress is charted by multiplication and square root equations along the top of the page. A page at the end explains all the mathematics involved.

Division

The Doorbell Rang by Pat Hutchins

Each time the doorbell rings, there are more people who have come to share Ma's wonderful cookies.

Henry's 100 Days of Kindergarten by Nancy Carlson

To celebrate the one hundredth day of kindergarten, each student brings in an example of 100 for show-and-tell.

The Little Mouse, The Red Ripe Strawberry and The Big Hungry Bear by Audrey and Don Wood

Little Mouse worries that the big, hungry bear will take his freshly picked, ripe, red strawberry for himself. There's only one solution to share it!

The Pigeon Finds a Hot Dog! by Mo Willems

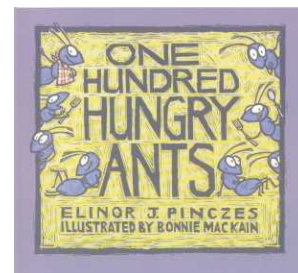
Pigeon learns about sharing when a curious duckling keeps asking questions about the hot dog Pigeon has found.

Safari Park by Stuart Murphy

As five cousins try to decide how to spend their one hundred tickets at the new Safari Park, readers can practice interpreting number sentences to find out how many rides they can go on.

One Hundred Hungry Ants by E. Pinczes.

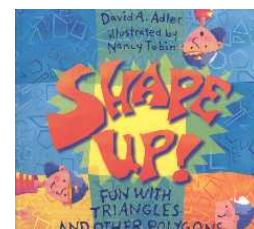
One hundred hungry ants hurry single file to sample the delights of a picnic, but that seems an awfully slow way to move. One enterprising ant suggests they could get there faster in two rows of 50...four rows of 25... and so the multiplication/division begins.



Geometry

Shape Up!: Fun with Triangles and Other Polygons by David A Adler.

This book uses things children are familiar with -- slice of cheese, pretzel sticks, a slice of bread, a pencil, and graph paper -- to teach them about the various types of polygons in a hands-on way. For students in grades three and up. Students will learn the proper terminology for various triangles, angles, polygons, and quadrilaterals.



The Greedy Triangle by Marilyn Burns

An unhappy triangle explores life as a variety of different geometric shapes.

The Secret Birthday Message by Eric Carle

By following the instructions in the geometrically coded message, Tim finds his birthday present.

Mouse Shapes by Ellen Stoll Walsh

Three mice learn about shapes, creativity, and cooperation.

Sir Cumference and the First Round Table by Wayne Neehan and Cindy Neuschwander

Sir Cumference, his wife, Lady Di of Ameter, and their son, Radius, use geometry and problem-solving techniques to help King Arthur. Other titles in the series include: Sir Cumference and the Sword in the Cone, Sir Cumference and the Great Night of Angleland, Sir Cumference and the Dragon of Pi, Sir Cumference and the Isle of Immeter.

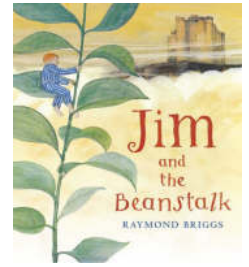
Measurement

Counting on Frank by Rod Clement

"What if I drew with this ball point pen until it ran out, how long would the line be?" "What if I ran this bath until the room filled up with water, how long would it take?" These are the sort of questions that all kids ask. The difference is that this kid has the answers.

Jim and the Beanstalk by Raymond Briggs

Jim climbs the beanstalk and discovers the giant needs a little help getting back to his boy-eating ways.



How Tall How Short How Faraway by David A Adler.

The theme of this book is measurement, and the author traces its history back to ancient Egypt. Students will learn the historical meanings of terms such as "digit," "palm," "span," and "cubit," and they will get a chance to measure themselves using these measures. Students then go to ancient Rome and learn how Romans measured in paces and in miles. They also learn of the need for standardization of measures and about the two leading measuring systems in use today.

Twelve Snails to One Lizard by

Milo Beaver needs to measure a log to fix the hole in the dam. What can he use to measure? Bubba Bullfrog says an inch is about as long as a snail and a foot is about as long a lizard.

Inch by Inch by

A hungry nightingale threatens to eat an inchworm unless he can measure her song.

Beanstalk: The Measure of a Giant - A Math Adventure by

A new spin on a classic tale, Jack climbs the beanstalk and finds a giant friend. How can Jack and the Giant do things together when they such different sizes?

Size

The Bad-Tempered Ladybird by Eric Carle

A grouchy ladybug, looking for a fight, challenges everyone she meets regardless of their size or strength.

The Blue Balloon by Mick Inkpen

A boy and his dog find a fantastic blue balloon that can be lots of different sizes.

Hop! Plop! by Corey Schwartz

When mouse and elephant go to the playground together, it seems as if everything they try to play on together gets broken, until they finally find the piece of equipment that is just right for them.

A House for Birdie by Stuart Murphy

Birdie needs a new house, his friends of various sizes help him look and everyone ends up with a house the right size for them tall, short, thin or wide.

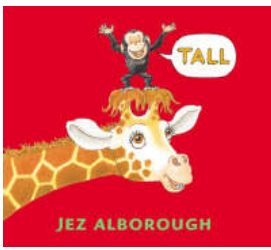
Just Teenie by Susan Meddaugh

Justine is so small, everyone calls her "Just Teenie," but one day she receives a plant that grows so tall, it gives her a different perspective.

Is a Blue Whale the Biggest Thing There Is? by Robert Wells

A book for all ages to illustrate and explain the relative sizes of "large" from a blue whale all the way to the whole universe. The opening picture shows an elephant, horse, and lion standing on a pier watching the tale of a blue whale that is larger than all of them combined. Then he shows the same animals looking at a jar that contains 100 blue whales. He then puts two such jars on a platform with the animals between them. With the animals still standing on the bottom platform, Wells draws a stack of platforms ten high and then on the next page puts them on top of Mount Everest to show how small they are in comparison. By this time the animals are no longer visible. Wells goes on and on until he reaches the universe itself, having introduced numbers in the millions and billions along the way. Even adults will find this book, and others in this series fascinating.





Tall by Jez Alborough

Illustrations and just a few words depict how various jungle animals help a very little monkey to feel that he is tall.

Titch by Pat Hutchins

Titch has a sister Mary, who was a bit bigger, and a brother Peter, who was a lot bigger. It seems everything his big brother and sister have is always bigger and better than what Twitch has to play with each day. But then one day Titch discovers that something little can grow very big indeed.

Watch Out Big Bro's Coming! by Jez Alborough

Terror spreads through the jungle as animals hear the news that rough, tough Big Bro is coming. A crew of animals learns that size is relative.

Who Sank The Boat? by Pamela Allen

The reader is invited to guess who causes the boat to sink when five animal friends of varying sizes decide to go for a row.

Time

A Second is a Hiccup by Hazel Hutchins

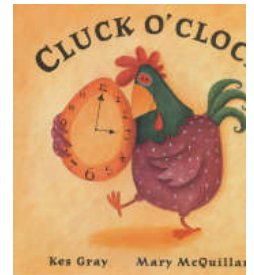
This book explains units of time in terms every child will recognize.

The Bad-Tempered Ladybird by Eric Carle

A grouchy ladybug, looking for a fight, challenges everyone she meets regardless of their size or strength.

Cluck O'Clock by Kes Gray

A group of chickens has a full day on the farm, from eating breakfast early in the morning to avoiding a fox late at night.



Five Minutes Peace by Jill Murphy

Mrs. Large tries to take a peaceful, relaxing bath but her family has other ideas.

My Grandmother's Clock by Geraldine McCaughrean

Grandma says you can tell time without a clock. You can count seconds by the beating of your heart, an hour is how long it takes the bathwater to go cold, and you know each day is over when your mother kisses you goodnight.

One Hundred Days of Cool by Stuart Murphy

Four students arrive on the first day of school looking cool and their teacher challenges them to keep it up as they count down one hundred days to a cool celebration.

What Time is it Mr Crocodile? by Judy Sierra

Mr. Crocodile's timetable to catch and eat some pesky monkeys does not work out and he becomes friends with them instead.

Money

The Big Buck Adventure by Shelley Gill and Deborah Tobola

This is consumer math for primary folk. Our heroine, who relates her humorous adventure in the first person, is dropped off at the store with a whole dollar to spend. As she moves from the candy counter to the toy department to the deli, she quickly discovers that a dollar doesn't buy much.



Coin Counting Book by Rozanne L. Williams.

The author, a former elementary teacher, identifies and counts the pictured coins and presents equivalent values with rhymes that encourage children to join in and add up the answers. It concludes with a picture of coins being dropped into a piggy bank, with some set aside to be spent. This can lead to discussions or lessons on what these coins might buy. A great book for introducing money to children.

Making Cents

"The nuts and bolts of money and a whole lot more!" Learn who is pictured on the \$10 bill. Imagine the clubhouse you could build by buying building materials and calculate just how many pennies you would need to build your dream castle. Add money, count costs, use your imagination and see how far you go! Again, for a non-math person, I think this book is pretty creative and fun.

Other Concepts

Mr Archimedes Bath by Pamela Allen

Mr Archimedes hops in and out of a bath with, variously a kangaroo, goat and wombat, examining the water level each time, and trying to understand why when ALL the friends are in the bath it always overflows.

Five Creatures by Emily Jenkins

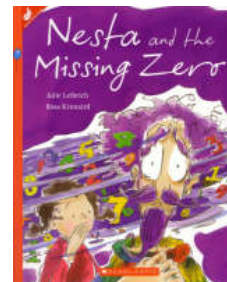
In words and pictures, a girl describes the three humans and two cats that live in her house, and details some of the traits that they share. A great introduction to sets.

The Doorbell Rang by Pat Hutchins

Each time the doorbell rings, there are more people who have come to share Ma's wonderful cookies. An introduction to fractions.

Nesta and the Missing Zero by Julie Leibrich

Mr Abacus has lost the number zero and it's amazing how much chaos nothing can cause!



Math Curse by Jon Scieszka

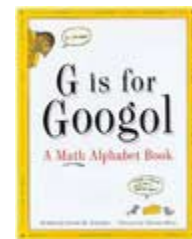
When the teacher tells her class that they can think of almost everything as a math problem, one student acquires a math anxiety which becomes a real curse.

The Great Graph Contest by Loreen Leedy

Two creatures go crazy with graphs in an imaginative look at organizing information. Kids learn about bar graphs, pie charts, Venn diagrams and more.

G Is for Googol is a Math Alphabet book.

A is for abacus, B is for binary, C is for cubit and, well, G is for googol. If you have a kid who loves math, this book is pretty cute.



Piece = Part = Portion by Scott Gifford and Shmuel Thaler

A visual learning book for younger kids who are fighting for the largest piece of pizza in the box. If you start out with 100% of the pizza and one piece is removed, what percentage is left? These are questions you can develop yourself as you look through this book of photographs which leave you calculating percentages and fractions.

The Wishing Club: A Story About Fractions by Donna Jo Napoli and Anna Currey

This charming blend of storytelling and using fractions will keep young readers engaged until the very end.

Fraction Action by Loreen Leedy

Miss Prime and her friends are back to teach fractions.

Fraction Fun by David Adler

Fractions are everywhere and we use them all the time: when we tell time, count money, or eat a slice of pizza.