

# Maths Through Stories

A list of story books that can be used to develop an understanding of maths concepts.



See accompanying training slides for how to use such stories to best effect.

# Maths Story List

## Number

### Number Recognition

Filthy Franny and the four faery fleas

One

One Thing

Pink Tiana cookies for three

Sidney the Silly who only eats six

The twins two by two

Two

Two is for twins

### One to one correspondence

Abu Ali counts his donkeys

Count off, squeak scouts

Crash boom

Five silly fisherman

Seaweed soup

The right place for Albert

### Counting forwards and backwards from 10

5 little ducks

10 easter egg hunters

10 fat turkeys

10 trick or treaters

A dozen ducklings lost and found

Monster Math

Mouse count

On the launch pad

One more sheep

One wolf howls

### Counting forwards and backwards from 100

Emma's big counting

100 days of cool

100 hungry monkeys

### Skip Counting

Arctic Fives Arrive

Ants at the picnic

Bunches of buttons

Counting sheep

Eggs and legs

Eric the red

Lots of lady bugs

One hundred hungry ants

Plenty of petals

Tail feather fun

Just add fun

### Large Numbers

Cuthbert the croc

How big is a million

A million fish more or less  
Infinity and me  
On beyond a million  
Comparing and ordering  
Peg and cat – Eid al Adha adventure  
The perfect split  
Balancing bears: comparing numbers  
Gavin the gator  
Henry keeps score  
Pezzettino

### **Odd and Even**

Pink Tiana cookies for three  
Alien even and alien odd  
Among the odds and evens  
Buzzing bees – discovering numbers  
Colour me even, colour me odd  
Even Steven and odd Todd  
Missing Mittens  
One odd day  
Two hundred rabbits

### **Ordinal Numbers**

10 little rubber ducks  
20 hungry piggies  
Albert the muffin maker  
Henry the fourth  
Snowbear's Christmas Countdown  
The biggest fish  
The seven Chinese sisters  
Where's Harley  
The 329<sup>th</sup> friend

### **Place Value**

All the little ones  
How big is a million  
Penguin place value  
More penguin place value  
The farmer's dream  
The king's commissioners  
Earth day hoorah  
Mr Base Ten invents mathematics  
Sir Cumference and the king's tens  
Sir Cumference gets decima's point  
The blast off kid  
The missing birthday party  
The warlord's beads

### **Rounding**

Coyotes all around  
On my way to grandma's house  
Sir Cumference and the roundabout battle

### **Zero**

Mouse maths – super zero

A place for zero

Max's math

None the number

The farmer's dream

Zero

Zero the hero

### **Negative Numbers**

Think positive Pippa

Less than zero

### **Estimating**

Emma's big counting

Betcha

How many jelly beans?

How many seeds in a pumpkin?

Miss Penny says prove it!

The long wait

### **Prime Numbers**

Bean thirteen

Divide and ride

### **Number Bonds**

Emma's counting

## **Four Operations**

### **Addition & Subtraction**

10 gulab jamuns

cockatoos

Emma's counting

Grandfather owl

Handa's Surprise

Running an errand

Ten monkey jamboree

Deductive detective while mummy hen was away

100 snowmen

Pounds of tomatoes

a bear fair share

Albert adds up

Albert doubles the fun

Albert helps out

Animals on board

Cats add up

Cuthbert the croc

Elevator magic

How many feet are in the bed

the cheese feast

Subtraction action

Uno's garden

### **Multiplication**

Emma's Grouping

Albert Doubles the Fun

Corkscrew Counts

Cuthbert the Croc Sees Double Sees Double

Daniels Day of Multiplication

Double the Ducks

How Many Feet in the Bed?

Matthew's Sunshine Bakery

One Hundred Hungry Ants

One Hundred Shoes

Sixteen Runaway pumpkins

The Flying Birds

The Trouble with Pets

Twice my size

$2 \times 2 = \text{BOO!}$

365 penguins

A Place for Zero

A Thousand Theos

Amanda Bean's Amazing Dream

Bats on Parade

Breakfast at Danny's Diner

Don't Count Your Chickens

Elsie Times Eight

How Many Seeds in a Pumpkin?

Just Add Fun

Lemon and Ice and everything Nice

Mice Twice

Minnie's diner

Ready, Set, 100<sup>th</sup> Day

Stacks of Trouble

Ten Times Better

The 512 ants on Sullivan street

The Kings Commissioners

Too Many Cooks!

Too Many Kangaroo Thing to Do!

Bigger, Better, Best!

Sam's Sneaker Squares

$7 \times 9 = \text{Trouble}$

Masters of Maths Captain X

Multiplying Menace – The Revenge of Rumpelstiltskin

My Full Moon is Square

The Fishy Fountain

The Lion's Share

The Lost Key

Number Line Fun

One is a Snail Ten is a Crab

## Division

The Last Marshmallow

The Perfect split

A Remainder of One

Everybody Wins

Give Me Half

Having Fun with Buster Bug

Katelyn's Fair Share Picnic

Luna's Yum Yum Dim Sum  
One Hungry Cat  
One Funny Field Day  
The Doorbell Rang  
The Great Divide  
The Trouble with Pets  
Two Hundred Rabbits  
Bean Thirteen  
Clean-Sweep Campers  
Divide and Ride  
How Many Seeds in a Pumpkin?  
Ready, Set, 100<sup>th</sup> Day!  
Two Tickets to Ride  
The Fishy Fountain  
The Lion's Share  
The Lost Key  
The Multiplying Menace Divides  
Number Line Fun

## Algebra

### Patterns

Beep, Beep, Vroom, Vroom!  
Birthday Beeps and Boops  
Busy Bugs  
Busy, Busy, Busy!  
Emma's Patterns  
Hooray for Fish!  
Pattern Bugs  
Sleepover Similarities  
Bracelets for Bina's Brothers  
Bravo, Albert!  
What's Next Nina?  
A Cloak for the Dreamer  
Patterns in Peru  
Tessalation!  
Toads and Tessellations

### Number Sequences

The Big Carrot  
Levels in the Library  
Sixteen Runaway Pumpkins  
Super Specs  
The 512 Ants on Sullivan Street  
Uno's Garden  
Fibonacci Zoo  
Rabbits Rabbits Everywhere  
The Rabbit Problem

### Equations

This Plus That  
How to be an Earthling  
Riley the Robot  
Dinosaur Deals

Ready, Set, Hop!  
Safari Park  
The Sneetches  
The Yum-Yum House  
Mystery Math – A First book of Algebra

### **Combinations and permutations**

Anno's Three Little Pigs  
Six Dinner Sid

### **Factorial**

Anno's Mysterious Multiplying Jar

### **Powers and exponential Growth**

My Full Moon is Square  
On Beyond a Million  
A Grain of Rice  
Anno's Magic Seeds  
One Grain of Rice  
The Kings Chessboard

## **FDP & Ratio**

### **Fraction**

Peg and Cat- The Eid al-Adha Adventure  
Peg and Cat- The Pizza Problem  
Emma's Fractions  
Breakfast Around the World  
Cuddly Kittens: Discovering Fractions  
Grandma's Quilts  
Grandma's Red Silk Dress  
Mary Clare Likes to Share  
The Wishing Club  
Twinderella  
All The Little Ones  
Charlie Piechart and the Case of the Missing Pizza Slice  
Clean-Sweep Campers  
Fraction Action  
Full House  
Inchworm and a Half  
Jump, Kangaroo, Jump!  
My Half Day  
Pezzettino  
Pizza, Pizzazz!  
Tortoise and the Hare's Amazing Race  
Whole-y cow!  
Go, Fractions!  
A Very Improbable story  
Charlie in Fraction City  
Fractions = Trouble!  
Fractions in disguise  
Multiplying Menace – The revenge of Rumpelstiltskin  
Sir Cumference and the First Round Table  
Sir Cumference and the Fraction Faire  
The Ancient Formula

The Lion's Share  
Parting is Such Sweet Sorrow  
Sir Cumference and the Dragon of Pi  
A Fraction's Goal – Part of a Whole  
Fraction Fun  
Fractions, Decimals and Percents  
If You Were a Fraction  
How Many Snails?  
Set  
Working with Fractions

### **Decimal**

Sir Cumference and the Decima's Point  
Fractions, Decimals and Percents

### **Percentage**

The Bark Park  
The Grizzly Gazette  
Fractions, Decimals and Percent

### **Ratio and Proportion**

Beanstalk – The Measure of a Giant  
How High is the Sky?  
The Cat in the Hat  
The Giant's Loo Roll  
Cut Down to Size at High Noon  
Pythagoras and the Ratios  
The Warlord's Puppeteers  
If...  
If the World Were a Village  
If You Hopped Like a Frog

## **Geometry**

### **2D Shapes**

Circle, Sphere!  
Mouse Shapes  
Ship Shapes  
Circus Shapes  
"Could you Lift up Your Bottom?"  
Love, Triangle  
Round is a Mooncake  
Shape Spotters  
A Trapezoid is Not a Dinosaur  
Have You Seen My Monster?  
Let's Play Mums and Dads  
Mice on Ice  
Moonchap  
Not enough Room!  
Square Bear  
Square Bear Meets Round Hound  
Tangram Cat  
The Secret Birthday Message  
Grandfather Tang's Story  
It Was Halloween Night...

Math Fair Blues  
Max's Math  
The Greedy Triangle  
Three Pigs, One wolf and Seven Magic Shapes  
A Cloak for the Dreamer  
Toads and Tessellations  
Pigs on the Ball  
Hamster Clamps  
The Shape Family Babies  
The silly Story of Goldie Locks and the Three Squares  
The Warlord's Puzzle  
Sir Cumference and the First Round Table  
Sir Cumference and the Great Knight of Angleland  
Sir Cumference and the Isle of Immeter  
The Book Bandit  
Toula 270°  
Sir Cumference and the Dragon of Pi  
What's Your Angle, Pythagoras?  
Shape Up!  
Shapes That Roll

### **Symmetry**

Milly  
What Happened at Wizard school  
Let's Fly a Kite  
Otto and the New Girl  
Seeing Symmetry

### **3D Shapes**

Circle! Sphere!  
Kitten Castle  
Let's Play Mums and Dads!  
Make a Wish Albert!  
Samantha's Search  
Captain Invincible and the Space shapes  
Charlie Piechart and the Case of the Missing Hat  
Mummy Math  
The Incredibly Awesome Box  
Sir Cumference and the Sword in the Cone

### **Positioning and Mapping**

Albert is Not Scared  
Albert's Amazing Snail  
Bug dance  
Lost in the Museum  
The Greatest Gymnast of All  
Mapping Penny's World  
Treasure Map  
X Marks the Spot!  
Where's That Bone?  
Sir Cumference and the Vikings Map

### **Transformation**

Usha and the Big Digger

## Measurement

### Time Telling and the Days of the Week

A Day at Grandma's  
Rabbit's Pajama Party  
Albert Starts School  
Empress Adelaide Dances at 8  
Get Up and Go!  
It's About Time!  
Play Date  
The Monster Diaries  
Tom and the Tinfoil of Trouble  
What's the Time Mr wolf?  
88 Pounds of Tomatoes  
Charlie Piechart and the Case of the Missing Dog  
Game Time!  
Pepper's Journal  
Pigs go to Market  
Rodeo Time  
The Kung Fu Puzzle  
Just a Second

### Money

Albert Helps Out  
Follow the Money!  
The Penny Pot  
The Shopping Basket  
Lemon and Ice and Everything Nice  
Pigs go to Market  
The Bark Park  
Monster Money Book  
How to Be an Earthling  
Once Upon a Dime  
Sluggers' Car Wash  
Sold!  
The Chocolate champs  
Money Madness

### Length and Distance

Up to my Knees!  
Ants Rule – The Long and the Short of It  
How Tall was Milton?  
If the Shoe Fits  
One snowy Night  
Super Sandcastle Saturday  
Red Shoes  
The Biggest Fish  
The Fattest, Tallest, Biggest Snowman Ever  
Carrie Measures Up  
How Big is a Foot?  
Inch By Inch  
Inchworm and a Half  
Keep Your Distance!

Measuring Penny  
Six feet Long and Three Feet wide  
Sunflowers Measure up  
The Case of the Backyard Treasure  
Twelve Snails to One Lizard  
Polly's Pen Pal  
Princesses of Bread  
Sam's Sneaker Squares  
The Royal Treasure Measure  
The Warlord's Kites  
Beanstalk – The Measure of a Giant  
How Deep is the Sea?  
How Big was a Dinosaur?  
How High is the Sky?  
Many Moons  
Manga Mysteries – The Secret Ghost  
Desperate Measures  
Sir Cumference and the Dragon of Pi  
Millions to Measure  
Actual size  
How Tall, How Short, How Faraway

### **Area and Perimeter**

Bigger, Better, Best!  
Chickens on the Move  
Sam's Sneaker Squares  
The Princess is Coming to Town  
The Warlord's Kite  
Wrappers Wanted  
Racing Around  
Spaghetti and Meatballs For All  
Zachary Zormer Shape Transformer  
Perimeter, Area and Volume

### **Mass, Volume and Capacity**

A Beach for Albert  
A Hose for Birdie  
Look Grandma! Ni, Elisi!  
More for Me!  
88 Pounds of Tomatoes  
Equal Shmequal  
The Dragon's Scales  
Cao Chong Weighs an Elephant  
Pastry school in Paris  
Pigs in the Pantry  
Polly's Pen Pal  
Princesses of Bread  
Room for Ripley  
Sam and Dave Dig a Hole  
The 100-Pound Problem  
Alice in Pastaland  
Buddies – Tell Me How much it Weighs

Pound or a Kilogram

Measuring

Millions to Measure

On the scale, A Weighty Tale

### **Temperature**

The Pool Party

Let's go, Snow!

The Kung Fu Puzzle

### **Measurement Comparison**

Balancing Act

Mouse is Small

Up to my Knees!

What Will Fit?

Just Enough Eggs

Picnic With Some Peanuts

Too Many Pillows

Albert's Bigger Than Big Idea

Am I Small? Je Suis Petite, Moi?

Ants Rule- The Long and Short of It

Lia and Luis – Who Has More?

Mighty Maddie

Super Sand Castle Saturday

The Best Bug Parade

The Biggest Fish

The Fattest, tallest, Biggest Snowman Ever

Too Tall Tina

Who Eats First?

Equal Shmequal

Measuring Penny

The Dragon's Scales

Cao Chong Weighs an Elephant

Pastry School in Paris

The Princess is Coming to Town

How Big was a Dinosaur?

## **Statistics**

### **Sorting and Classifying**

Hooray for Fish!

It's a Seashell Day

3 Little Firefighters

A Mousy Mess

A Pair of Socks

Cat Show

Dave's Down-to-Earth Rock Shop

Grandma's Button Box

Hannah's Collections

More or Less a Mess

Sam Sorts

Sort it Out!

The Animals Would Not Sleep

A Fishy Mystery

The Sundae Scoop

How Many Snails?

## **Data Handling**

Peg and Cat – The Lemonade Problem

Play Date

The Best Food in the Forest

All Aboard!

Ask Mia

Bart's Amazing Charts

Fair is Fair

Family Reunion

How to Avoid the Fearsome Cat

Kenley's Line Plot Graph

Pepper's Journal

Rodeo Time

Sir Cumference and the Off-the-Charts Dessert

Tally Cat Keeps track

Tally O'Malley

The Best Vacation ever

Who's Got spots?

The Chocolate Champs

The Great Graph Contest

Lemonade for Sale

Less Than Zero

Project Popcorn

The Grizzly Gazette

Tell me if You Like

Would You Rather...

## **Probability**

A Very Improbable story

Anno's Hat Tricks

Bad Luck Brad

It's Probably Penny

No Fair!

Pigs at Odds

Probably Pistachio

Same Old Horse

Spider and the Candy Lady

Lightning Flash

The Runaway Puppy

## **Calculus**

Introductory Calculus for Infants

The Manga Guide to Calculus

## **Miscellaneous**

### **Mathematicians**

Senefer

Archimedes

Ada Byron Lovelace and the Thinking Machine

Ben Franklyn and the Magic Squares

Mr Archimedes' Bath

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The Fly on the Ceiling

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Pythagoras and the Ratios

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Blockhead – The Life of Fibonacci

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The Boy Who loved Math

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The Librarian who Measured the Earth

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What's your angle Pythagoras?

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**Mathematics All Around Us**

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Princess Star

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A Day With No Math

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Math Curse

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Math at the Art Museum

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Max's Math

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Measuring Penny

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Missing Math – A Number Mystery

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Nigel's Numberless World

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The Case of the Backyard Treasure

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Annika Riz, Math Whiz

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**Attitudes Towards Mathematics**

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Everyone Can Learn Math

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