Marta! Big & Small by Jen Arena and Angela Dominguez

AGE LEVEL 4–6 YEARS

About the Story

Exploring the jungle, Marta meets a bug and an elephant. The bug sees her as very big, while to the elephant, Marta is very small. Then she meets more animals. Marta is both slower than a horse and faster than a turtle. She is quieter than a lion and noisier than a rabbit. After escaping a nasty snake, Marta manages to become the same size, speed, and loudness as the other animals. How does she do that? Marta is very clever! This bilingual book introduces both English and Spanish comparison words in an enjoyable way.



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Words to Learn

niña (small girl), grande (big), pequeña (small), lenta (slow), rápida (fast), tranquila (quiet), ruidosa (loud)

About the Math

This book involves informal measurement (comparison) among several dimensions: size, speed, and loudness. Children can learn that:

- An object can be simultaneously more and less than other objects on the same dimension. For example, Marta is louder than a rabbit and at the same time quieter than a lion.
- An object can change its position on a dimension.
 For example, Marta can become as quiet as the rabbit or as loud as the lion (well maybe not quite as loud!).



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Math Talk During Reading

THE GOAL OF ALL THESE QUESTIONS IS TO HELP CHILDREN THINK ABOUT COMPARISONS ALONG DIFFERENT DIMENSIONS

- "In how many different ways is Marta bigger than the bug?" (She is taller, heavier, louder.) "In what way is Marta smaller than the elephant?" (Many ways!)
- "Which object—elephant, bug, or Marta—weighs the very least? Which is of medium weight? Which is the heaviest?"
- "Which is bigger than Marta: the horse or the turtle? Which is smaller?"
- "Marta is louder than the rabbit. Is the rabbit quieter than Marta? Is it quieter than the lion?"

Try to come up with some of your own questions and comments, too!

Activity After Reading

HELP YOUR CHILD DRAW PICTURES SHOWING RELATIVE SIZE

Choose an object like a banana. Find another object at home that is shorter than the banana and a different object that is longer than the banana. Draw a picture of the three objects to show the size differences. Discuss how the banana is both shorter and longer at the same time.

Mathical

BOOK PRIZE

The Mathical Book Prize recognizes math-inspiring literature for kids ages 2-18. Prize-winning books are selected by a committee of teachers, librarians, mathematicians, and others. To get the Mathical List, plus reading guides, book reviews, and more, see mathicalbooks.org

PreK WINNERS:

Again, Essie? by Jenny Lacika Baby Goes to Market by Atinuke Crash! Boom! A Math Tale by Robie H. Harris 8: An Animal Alphabet by Elisha Cooper Have You Seen My Dragon? by Steve Light Lia & Luís: Who Has More? by Ana Crespo **One Fox: A Counting Book Thriller** by Kate Read

1 Smile, 10 Toes by Nelleke Verhoeff **ONE Very Big Bear** by Alice Brière-Haguet

GRADES K-2 WINNERS:

Absolutely One Thing: Featuring Charlie and Lola by Lauren Child

The Animals Would Not Sleep by Sara Levine Max's Math by Kate Bank

Nothing Stopped Sophie: The Story of **Unshakable Mathematician Sophie Germain** by Chervl Bardoe

One Big Pair of Underwear by Laura Gehl

Pigeon Math by Asia Citro Sheep Won't Sleep: Counting by

2s, 5s, and 10s by Judy Cox

Uma Wimple Charts Her House by Reif Larsen and Ben Gibson

Zero Zebras: A Counting Book about What's Not There by Bruce Goldstone

PreK HONOR TITLES:

Animal Shapes by Christopher Silas Neal Circle Under Berry by Carter Higgins Count the Monkeys by Mac Barnett Count with Maisy, Cheep, Cheep! by Lucy Cousins

Goodnight, Numbers

by Danica McKellar

I Know Numbers by Taro Gomi Marta! Big and Small by Jen Arena A Mousy Mess by Laura Driscoll

Numbers Everywhere

by Linda Leopold Strauss

One Happy Tiger

by Catherine Rayner

100 Bugs! A Counting Book by Kate Narita

One Is a Piñata: A Book of Numbers by Roseanne Greenfield Thong

Over in a River: Flowing Out to the Sea by Marianne Berkes

Press Here by Hervé Tullet Round by Joyce Sidman

Shape Up, Construction Trucks by Victoria Allenby

Usha and the Big Digger

by Amitha Jagannath Knight

What Will Fit? by Grace Lin

GRADES K-2 HONOR TITLES:

Billions of Bricks: A Counting Book about Building by Kurt Cyrus **Bird Count**

by Susan Edwards Richmond

The Boy Who Loved Math by Deborah Heiligman

Cao Chong Weighs an Elephant by Songju Ma Daemicke

Counting on Katherine: **How Katherine Johnson Saved**

Apollo 13 by Helaine Becker

Counting the Stars: The Story of Katherine Johnson, NASA

Mathematician by Lesa Cline-Ransom

Count on Me by Miguel Tanco

The Girl With a Mind for Math: The Story of Raye Montague by Julia Finley Mosca

How Many Jelly Beans? A Giant Book of Giant Numbers! by Andrea Menotti

Is 2 a Lot?: An Adventure with Numbers by Annie Watson

Lemonade in Winter: A Book About **Two Kids Counting Money** by Emily Jenkins

Lifetime: The Amazing Numbers in

Animal Lives by Lola M. Schaefer One Boy Watching by Grant Snider

Shapes, Reshape! by Silvia Borando

3×4 by Ivan Brunetti

Too Many Pigs and One Big Bad Wolf by Davide Calì

We Are One: How the World Adds Up by Susan Hood

When Sophie Thinks She Can't by Molly Bang

Zero the Hero by Joan Holub

HALL OF FAME TITLES:

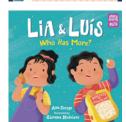
Anno's Counting Book

Hippos Go Berserk! by Sandra Boynton

The Very Hungry Caterpillar by Eric Carle

























Mitsumasa Anno

One Grain of Rice: A Mathematical Folktale by Demi











