



REACH OUT AND READ ROR COUNTS TOOLKIT



WISCONSIN

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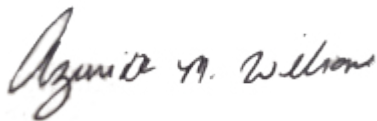
Envisioning a world where every child has the relationships essential to learn and thrive.

Introduction

Thank you for using this Reach Out and Read (ROR) toolkit, designed for clinics looking to implement ROR Counts, our early math initiative. ROR Counts was introduced nationwide in 2017. ROR Affiliates across the country have implemented at different times and with different strategies. Reach Out and Read Wisconsin is now formally offering ROR Counts to any interested clinic. ROR Counts is a continuation of ROR's work and mission, and ROR Counts is a value-add initiative, participation is optional.

The purpose behind ROR Counts is to introduce math concepts in a relaxed and fun way via sharing books when children are young. ROR Counts expands on the classic ROR model by encouraging "Math Talk", which providers and families will already realize is part of everyday speech and seeks to reduce math anxiety for both children and families. No special books are needed, math concepts can be found in any book.

Sincerely,



Azure'De Williams
Executive Director



Dipesh Navsaria, MPH, MSLIS, MD
Medical Director



Frequently Asked Questions

Below are some frequently asked questions regarding ROR Counts:

Can any clinic start implementing ROR Counts?

Yes, this initiative is available to any Wisconsin clinic that would like to participate. Participation is optional.

What is the cost to use ROR Counts?

No additional cost because books that are already being ordered and available through our vendors provide early math talking points and concepts. The provider training further elaborates on this.

How do we get started?

Reach out to your ROR WI Program Manager. They can provide information on the provider training.

What does the provider training look like?

To be a ROR Counts clinic, one provider at each clinic needs to view the training on Pathwright. Instructions for how to access Pathwright are [here](#).

The online training takes approximately 45 minutes.

Providers who complete the training will automatically receive 1.25 CME credits from the AAFP. These credits are widely applicable for a variety of medical professionals. Pediatricians are eligible to receive 1 MOC-2 point for the completion of the training IF they pass the training with a score of 75% or higher, AND complete the survey at the end of the training with their ABP ID number. MOC-2 points are only applicable to pediatricians, as there is no equivalent for Family Physicians. MOC-2 points are awarded at the beginning of each month. Providers will receive an email notification when their points have been submitted.

What materials are available to support clinic's work with ROR Counts?

A variety of materials have been created and include:

[ROR Counts Booklist](#) (*reminder: most books can be used to facilitate math talk, our team has put together some suggestions in case it is helpful for ordering*).

[ROR Counts one pager](#) – introduction and overview about ROR Counts

[Age Milestones for Early Math](#)

[Early Math Chart \(English\)](#)

[Early Math Poster \(English\)](#)

[Early Math Poster \(Spanish\)](#)

[Early Math bookmark](#)

[Early Math stickers](#)

What is the best way to print these resources and materials for my clinic?

At this time Reach Out and Read Wisconsin does not have funding to help clinics print these materials. We suggest sending the files to a local printer, FedEx, UPS, Walgreens, your local library, or other print shops to receive physical copies.

Any additional questions can be directed to your ROR Wisconsin Program Manager.

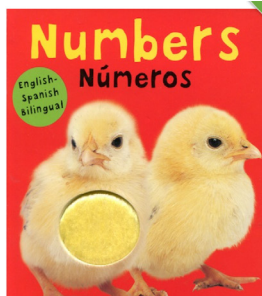
ROR Counts Booklist



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EARLY MATH BOOK LIST

This list contains suggestions for ages birth to 5 years.
While some titles appear math focused, any book can be considered an early "math" book.



Bright Baby: Numbers/Numeros

Author: Roger Priddy
Illustrator: Roger Priddy
Suggested Age Range: 6 - 12 months, Birth - 6 Months

BOARDBOOK--With vocabulary in English and Spanish, this book helps young children to associate numbers with beautiful pictures and touch and feel elements.



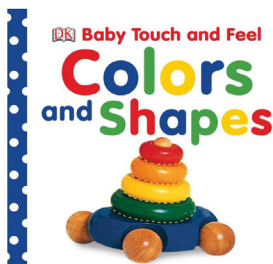
Status: In Stock
Available Quantity: 210

Item: 4224A
\$3.75

BIRTH - 12 MONTHS

MATH COUNTS!

Math concepts like pointing, counting, size comparison, and story prediction can be incorporated into any book.



DK Touch & Feel: Colors and Shapes

Author: DK Publishing
Illustrator: DK Publishing
Suggested Age Range: 6 - 12 months, Birth - 6 Months

BOARDBOOK--Each page shows a shape like circles, stars, and other objects in a bright color like red, purple, and blue. These are labeled with easy to read letters, to inspire early language development. It becomes an activity when you trace the shapes and letters with your fingers and find the unique texture in the soft shoes, shiny button, or the silky butterfly! Count out the bumpy peas together, to teach your little one the numbers 1-6.



Status: In Stock
Available Quantity: 1000+

Item: 6531A
\$3.95



Books with Bumps: Counting / Contando

Author: Flying Frog
Illustrator: Flying Frog
Suggested Age Range: 6 - 12 months, Birth - 6 Months

BOARDBOOK--Learning is at your fingertips! Using raised images on every page, this book with bumps introduces young readers to the numbers one through ten in a fun way.



Status: In Stock
Available Quantity: 1000+

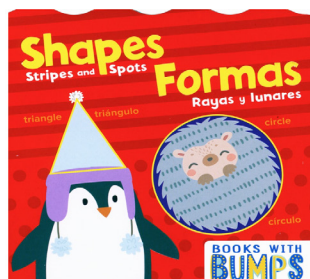
Item: 6593A

\$2.25

Quantity

[Click here to buy by the case and save!](#)

1



Books with Bumps: Shapes / Formas

Author: Flying Frog
Illustrator: Flying Frog
Suggested Age Range: 6 - 12 months, Birth - 6 Months

BOARDBOOK--Learning is at your fingertips! Using raised images on every page, this book with bumps introduces young readers to the numbers one through ten in a fun way.



Status: In Stock
Available Quantity: 1000+

Item: 6591A

\$2.25

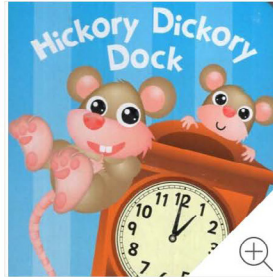
Quantity

[Click here to buy by the case and save!](#)

1

EARLY MATH BOOK LIST

BIRTH - 12 MONTHS CONTINUED



Home > Valu-Book

Hickory Dickory Dock (Chunky Board Book)

Chunky boards books that feature favorite classic nursery rhymes.
Target age group 0-2

Cover price: \$1.75, you save \$0.75

\$1.00

In stock (918 copies available)

Add to cart

♥ Add to wishlist



Books with Bumps: Colors / Colores

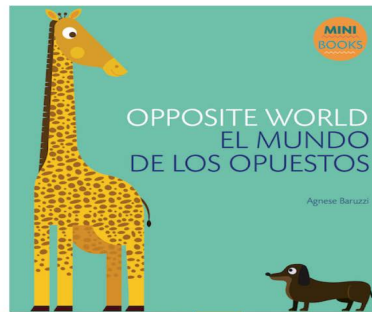
Author: Flying Frog
Illustrator: Flying Frog
Suggested Age Range: 6 - 12 months, Birth - 6 Months

BOARDBOOK--Learning is at your fingertip! Using raised images on every page, this book with bumps introduces young readers to the numbers one through ten in a fun way.

Catalog Item

Status: In Stock
Available Quantity: 1000+
Item: 6592A
\$2.25

12 - 18 MONTHS



Opposite World / Mundo opuestos

Author: Agnese Baruzzi
Illustrator: Agnese Baruzzi
Suggested Age Range: 12 - 18 months

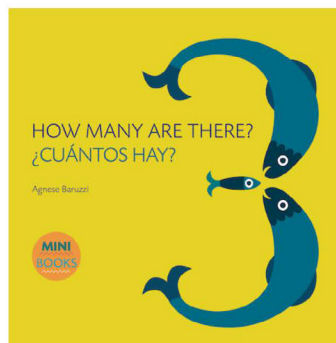
BOARDBOOK--Up-down, inside-out! An upside down world is hidden adorable Spanish-Bilingual book!

Catalog Item

Status: In Stock
Available Quantity: 1000+
Item: 6072A
\$2.60

Quantity

[Click here to buy by the case and save!](#)



How Many Are There? / ¿Cuántos hay?

Author: Agnese Baruzzi
Illustrator: Agnese Baruzzi
Suggested Age Range: 12 - 18 months

BOARDBOOK--How many are there? In this Spanish-English Bilingual book you learn to count!

Catalog Item

Status: In Stock
Available Quantity: 1000+
Item: 6071A
\$2.60

Quantity

[Click here to buy by the case and save!](#)

EARLY MATH BOOK LIST

Home > Valu-Book

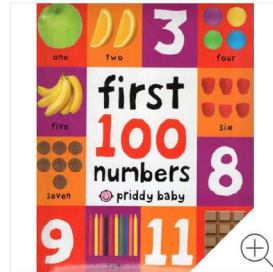
First 100 Numbers (First 100...) (Padded Board Book)

Your little one will love to learn about numbers and counting with this bright board book. There are interesting photographs to look at and talk about, and labels to read and learn, too. The pages are made from tough board for hours of fun reading, and the cover is softly padded for little hands to hold.

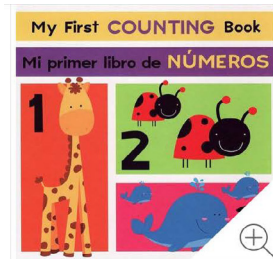
Target age group 1-3

Cover price: \$5.99, you save \$3.49

\$2.50



12 - 18 MONTHS CONTINUED



My First Counting Book / Mi primer libro de numeros (My First... Bilingual) (Board Book) (6x6)

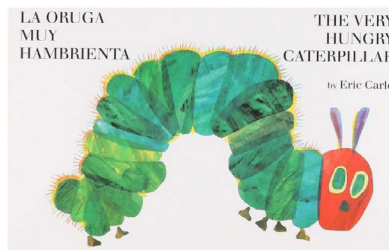
Count to one. Count to two. Count bugs that are red and whales that are blue. This first counting book is made just for you!

Cuenta a uno y luego cuenta a dos. Cuenta los insectos rojos y las ballenas azules. Este libro de numeros es hecho solo para ti!

Target age group 12-18 months

Cover price: \$6.99, you save \$4.74

\$2.25



The Very Hungry Caterpillar / La oruga muy hambrienta

Author: Eric Carle
Illustrator: Eric Carle
Suggested Age Range: 24 - 36 months

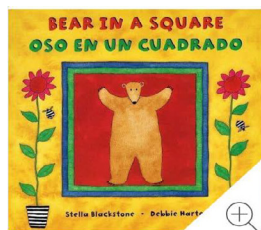
BOARDBOOK--On Monday, the hungry caterpillar eats one apple and on Tuesday he eats three plums. Will he ever feel full? Eric Carle's colorful illustrations bring the fascinating metamorphosis of a caterpillar into a butterfly to life in this adorable tale. This story introduces early concepts, such as counting and days of the week, to the youngest of readers!



Status: In Stock
Available Quantity: 342

Item: 6543A
\$5.55

2 - 3 YEARS



Bear in a Square (Spanish/English) (Paperback)

Discover lots of different shapes with Bear there are triangles on the waves, diamonds on the crown and stars in the sky.

Rhyme, repetition and counting establish this book of shapes, and a two-page spread recapping the shapes and colors reinforces the educational building blocks.

English / Spanish Bilingual Edition
Target age group 2-5

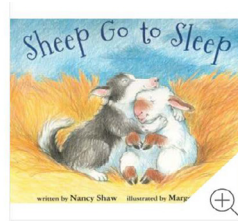
**NOT FOR SALE OUTSIDE THE U.S.
SUBJECT TO REMOVAL FROM CART AFTER CHECKOUT**

Cover price: \$8.99, you save \$6.49

\$2.50

EARLY MATH BOOK LIST

2 -3 YEARS CONTINUED



Sheep Go to Sleep (Lap Board Book) (9x10)

In this sweet and simple lap board book read-aloud, five restless sheep can't get to sleep until a helpful collie comes to their rescue. A companion to the best-selling SHEEP IN A JEEP.

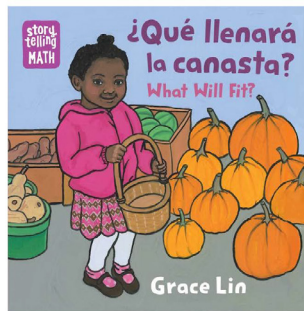
It's time for bed, but the sheep just can't settle down. Never fear: a trusty sheepdog is here to help. What will it take to get these restless sheep to bed? A hug? A blanket? A drink of water? Will this dedicated collie ever get these bleating sheep to sleep?

From the team behind the best-selling SHEEP IN A JEEP, this sweet and silly sleepy-time tale is perfect for anyone putting a demanding little one to bed.

Now in a lap board book size that is perfect for storytime!

Target age group 0-3

¥12.99; save \$10.24
\$2.75



What Will Fit? / ¿Que Llenará Canasta?

Author: Grace Lin
Illustrator: Grace Lin
Suggested Age Range: 24 - 36 months

BOARDBOOK- English-Spanish bilingual edition.

Caldecott Honor winner Grace Lin celebrates math for every kid, everywhere!

Take a trip to the farmers' market in this playful story about spatial sense. Olivia is searching for something just the right size to fill her basket. The apple is so small that it rolls around. The zucchini is so long that it sticks out. What will fit just right?

Online Exclusive

Status: In Stock
Available Quantity: 175
More coming in less than a week!

Item: 6712A
\$3.95

3-5 YEARS

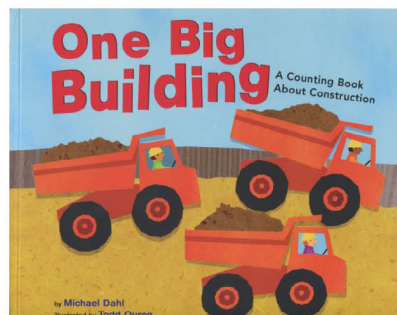


Home > Valu-Book

Five Enormous Dinosaurs (Classic Book With Holes)

Five enormous dinosaurs, letting out a roar. One stomped away... and then there were four! Children will love stomping, roaring and singing along to this fun rhyme, which will help to develop number skills. Bouncy illustrations, innovative die cutting and popular rhymes make Books with Holes a must for every child.
Target age group 2-6

Cover price: \$5.99; you save \$3.74
\$2.25



One Big Building: A Counting Book About Construction

Author: Michael Dahl
Illustrator: Todd Ouren
Suggested Age Range: 3 - 5 years

PAPERBACK--Watch a big building being constructed in this beautifully illustrated counting book. See the building grow from one simple plan to a gleaming 12-story structure, and learn what it takes to get there.

Catalog Item

Status: In Stock
Available Quantity: 1000+

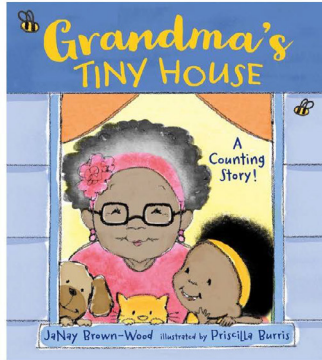
Item: 6254A
\$2.75



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EARLY MATH BOOK LIST

3-5 YEARS



Grandma's Tiny House

Author: Ja'Nay Brown-Wood
Illustrator: Priscilla Burris
Suggested Age Range: 3 - 5 years, 6 - 8 years

PAPERBACK--There is always room for family! This sweet, rhyming counting book introduces young readers to numbers one through fifteen as Grandma's family and friends fill her tiny house on Brown Street. Neighbors, aunts, uncles, nieces, nephews, and grandkids crowd into the house and pile it high with treats for a family feast. But when the walls begin to bulge and no-body has space enough to eat, one clever grandchild knows exactly what to do. Where there's a will there's a way when families grow and come together.



Status: In Stock
Available Quantity: 1000+

Item: 1770A
\$3.25

REACH OUT AND READ COUNTS

WHAT IS EARLY MATH?

Expanding Reach Out and Read to include math engagement makes math a fun and familiar part of children's lives.

Reducing math anxiety for parents and children through strategies like training providers, offering parent materials, creating activities, hosting workshops, and forming community partnerships.

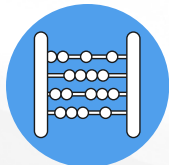


FIVE TIPS TO USE EARLY MATH IN ANY BOOK



POINT & COUNTING

Point at the words while you are reading the words and again as you count objects in the book.



NUMBER RECOGNITION

Count how many animals there are or notice the numbers on each page.



SPATIAL COMPARISON

“Something is on”, “Something is over”, “Something is under.”



SIZE COMPARISON

“Which is bigger?” and “Which is smaller?”



PREDICTING NARRATIVE

Ask questions like “What will happen next”, “Where will they go now?”



INCORPORATING ROR COUNTS IN YOUR CLINIC IS SIMPLE

- *Reach Out and Read Counts* can be incorporated into any primary care visit.
- Timing is flexible, and concepts may be introduced earlier or later, depending on the child.
- No additional books are required. *ROR Counts* concepts can be found in any book!
- For clinics who find it helpful, supporting materials — bookmarks, posters, handouts, stickers — are [available for download](#), along with a suggested booklist that includes many titles in the Reach Out and Read catalogs.

Age Milestones for Early Math

REACH OUT AND READ COUNTS

REACH OUT AND READ COUNTS

Narrative Prediction ~3-5 yrs

Milestone Can answer, “If I cut an apple in half, how many pieces will I have?”, copies basic shapes, asks questions

Message to parents Your young child can begin to use what he knows to guess what is going to happen in a story he hasn’t heard. Even if his guess doesn’t match the story, he is starting to learn how to make sense of his world.

When sharing books together:

- Ask what he thinks is going to happen in a new story and see what he says; then ask why he said so. What he tells you may be surprising!
- In a new rhyming story, ask her to guess the last word in the rhyme.
- It can be fun to see what goes on in your child’s head!

Encourage Families to Have Fun with Early Math

While introducing Math Talk as part of Reach Out and Read, the most important thing to emphasize is that it is meant to be fun for parent and child. Encourage parents not to focus on getting to the right answer – having fun with math and practicing will help their child improve and be ready for math at school.



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Age Milestones for Early Math

Early math skills and interest develop at different rates; the concepts below are listed in developmental order and are

associated with certain ages. As with classic Reach Out and Read, feel free to adapt your guidance to the individual child.

Pointing and Counting ~6-18 mos

Milestone Several words, indicates objects with index finger, points to pictures in book

Message to parents Do you know that your toddler is interested in math already? There are a lot of ways to have fun with him that will help this interest develop. You are probably doing some of them already.

When sharing books together:

- You can count objects on the page.
- Point at the pictures while counting and encourage your child to point with you.
- Start with small numbers: one mitten, two mittens. It can also be fun to count together to higher numbers.
- It's okay if your child puts numbers out of order – the important thing is that you are having fun counting together.

Numbers and Quantity ~18-24 mos

Milestone Two-word phrases, “reads” to dolls

Message to parents Your toddler is learning that numbers mean something – two hands, five fingers – and that counting can tell “how many.”

When sharing books together:

- Count and point to things on the page and name the total quantity: “Let’s count the dogs together: one, two, three, four, five. That’s five dogs all together.”
- You can ask her to look at a group of objects on a page and guess how many there are, then count them to check.
- Playing with numbers should be fun! It’s not important what answer your child gives.

Comparison ~24-36 mos

Milestone Two- to four-word sentences, follows two positional directions with a block (behind, under, next to, in front)

Message to parents Your older toddler probably already knows how to ask for more, choose the bigger apple, or whether he is taller or shorter than his friend.

When sharing books together:

- Compare things you see on the page – which pig is bigger?
- Put everyday objects – blocks, cups – in order of size – smallest, bigger, largest?
- These should be fun games, not lessons.

Early Math Chart



OVERVIEW OF EARLY MATHEMATICAL DEVELOPMENT: CONCEPTS, LANGUAGE, AND SKILLS

Even in their first year, babies are already building important math concepts. While exploring objects, babies begin to learn about number, shape, size, and spatial relations. When parents use math words (such as *one*, *two*, *round*, *big*, *in*, *on*), it helps babies develop language and math concepts. Parents can give young babies a good start on math concepts by using math words when they talk, sing, play, and read books with their baby.

12 TO 24 MONTHS

2 TO 3 YEARS

3 TO 4 YEARS

4 TO 5 YEARS

NUMBER CONCEPTS AND SKILLS

Explores number in play with objects (grouping objects; putting objects in one-to-one correspondence)	Explores number in play with objects (grouping objects; putting objects in one-to-one correspondence)	Uses the word <i>two</i> to accurately label pairs of objects	Quickly recognizes very small groups of one, two, or three objects without counting	Recognizes and names several written numerals; begins to understand that numerals represent specific quantities
Understands and begins to use words that refer to quantity (<i>more</i> , <i>a lot</i> , <i>so many</i>)	Understands and begins to use words such as <i>one-two-three</i> or <i>one-two-four-six</i>	Recites strings of counting numbers, such as <i>one-two-three</i> or <i>one-two-four-six</i>	Recites the counting series up to five or ten; counts about five objects accurately	Recites the counting series to 10 or 20 (with errors in the teens); counts about 10 objects accurately
Begins to use simple number words, usually without exact understanding	Begins to use simple number words, usually without exact understanding	Imitates counting objects by touching or pointing and saying number-words	Begins to solve simple adding and subtracting problems (plus or minus 1) with small numbers of objects	Solves simple adding and subtracting problems (plus or minus 1 or 2) by counting or mental calculation
May begin to understand the meaning of <i>one</i> and <i>two</i>	May begin to understand the meaning of <i>one</i> and <i>two</i>	Understands that <i>adding</i> to makes more and <i>taking away</i> makes less	Compares two groups of objects that are very small (1-3) or very different in number	Uses counting and one-to-one correspondence to compare groups of objects; uses terms <i>more</i> , <i>less</i> , and <i>same</i>
		Understands and uses ordinal terms <i>first</i> , <i>next</i> , <i>last</i>	Begins to understand and use ordinal number words <i>second</i> ... <i>fifth</i>	

KNOWLEDGE ABOUT SHAPES AND SPATIAL RELATIONS

Manipulates objects and explores shape (round, flat sides, pointed) and functional characteristics (<i>Does it roll? Can I stack it? Does it fit inside?</i>)	Manipulates objects and explores shape (round, flat sides, pointed) and functional characteristics (<i>Does it roll? Can I stack it? Does it fit inside?</i>)	Compares and matches shapes during play (stacks blocks; works simple inset puzzles)	Begins to recognize, name, and compare some common geometric shapes (squares, circles, triangles, rectangles)	Begins to identify, describe, and compare common geometric shapes based on their attributes (number of sides, number of corners/angles)
Explores shape, size, and spatial relations in play with objects (puts objects on, in, or next to other objects; puts objects in/takes objects out)	Explores shape, size, and spatial relations in play with objects (puts objects on, in, or next to other objects; puts objects in/takes objects out)	Understands and uses words that describe simple spatial relations and concepts (<i>in</i> , <i>on</i> , <i>off</i> , <i>up</i> , <i>down</i>)	Begins to understand and use words that describe complex spatial relations (<i>between</i> , <i>across</i> , <i>in front of</i> , <i>behind</i>)	Explores shape and space by creating elaborate constructions with blocks, Legos, boxes, etc.
		Begins to understand and use words that describe shape (<i>round</i> , <i>pointy</i> , <i>flat</i> , <i>long</i>)	Creates shapes in constructions, drawings, and puzzles	



Early Math Poster (English)

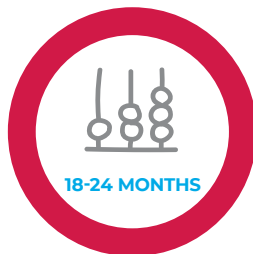


REACH OUT & READ COUNTS



6-18 MONTHS

Remember to
point and count!



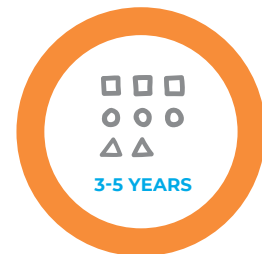
18-24 MONTHS

How many?
Let's count together.



24-36 MONTHS

Ask your child,
"Which is bigger?"



3-5 YEARS

Ask your child, "What's
next in the story?"

Reach
Out
& Read®



reachoutandread.org

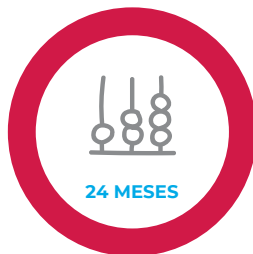
Early Math Poster (Spanish)



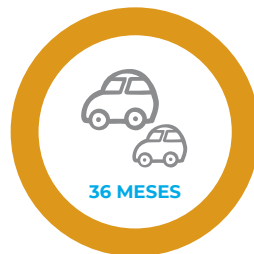
REACH OUT & READ CUENTA



Recuerde señalar y contar!



¿Cuántos? Vamos a contar juntos.



Pregunte a su niño/a, "¿qué tan grande? ¿qué tan pequeño?"



Pregunte a su niño/a, "¿qué sigue en la historia?"



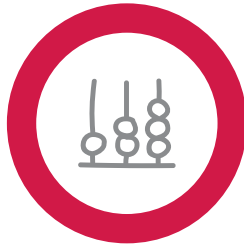
reachoutandread.org

Early Math Bookmarks

REACH OUT AND READ COUNTS



Let's Point and Count



How Many?



Which is Bigger?



What's Next?

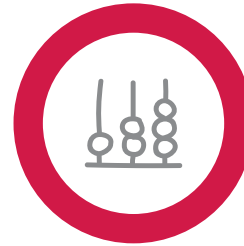


REACHOUTANDREAD.ORG

REACH OUT AND READ CUENTA



Conteo Simple



¿Cuántos?



Comparación



Predicción



REACHOUTANDREAD.ORG

Early Math Stickers

