## SESAME STREET

AN ENGLISH-LANGUAGE MAGAZINE FOR PARENTS AND CAREGIVERS

- Indoors
- Outdoors
- On the Go
happy, healthy, ready for school!


## math is everywhere





# Indoors 

 Math awaits you in the living room, kitchen, and bedroom. By showing your child that the places most familiar to her are full of opportunities to discover math, you empower her to find math everywhere!
## IN THE LIVING ROOM

Spatial spies: Play "I Spy" using math words like under, over, next to, and behind. Clue each other in to what you spy by describing where an object is. You might say, "I spy something under the glass," or "I spy something next to the sofa." Now ask your child to describe where other things are, using the words under, over, next to, and behind.

Go on a shape hunt: Call out a shape and ask your child to find things in the room with that shape. What is the shape of a magazine? A wall clock? As you search, explain that a rectangle has four sides and four angles and that a circle has no angles; it has curves. As you find shapes together, look for sides, angles, and curves.

Five math challenges for cleanup time:
(1) Count! How many things can your child pick up at the same time?
2. Look a-round! Pick up five round things.
(3) Stack! Try stacking three small things on top of one big thing.
(4) Sort! Place toys into boxes or shelves based on size, such as big, bigger, biggest.
5 Predict! Say, "I wonder if this toy can fit in this box? Do you think it will? Let's find out!"


## Game On!

Did you know that everyday games are full of math learning?

PUZZLES encourage your child to observe shapes. Point out the curves. lines, and angles on the pieces. See if a curve can fit next might tit line or angle. Ask, yourage your child to rotate line or angle.
instead?" Encourage your chake work.
and flip pieces to mak


CARD GAMES can encourage your child to match and group items. Challenge her to find all the cards of the same suit in a deck of cards. Then ask, "How else could we group them?" Try grouping by number, color, or other ways!

MATH ONLINE, ANYTIME! The computer is a great tool for discovering math. Press the number keys on the keyboard, or count how many times your child can type the first letter of his name. Online, visit sesamestreet.org and search for the names of these great math games:

- Magical Numbers
- Checkout Cookie
- Big Bird's Shapes
- Egg-Counting Elmo

Three quick mealtime math moments:
(1) Fold! Make shapes with your napkins. How many shapes can you make? Count the sides and angles of each shape.
2. Compare! Look at two drinking glasses of the same size. Which glass has less liquid? Which has more? During a meal, how does the amount change?
(3) Count! Common kitchen items can help your child learn to count! Encourage her to count spoons, forks, or plates.

## NBHEGKLCHEN

Explore parts of a whole: As you share a sandwich, say, "I'm cutting the sandwich in half so that each of us gets one piece."
Hold the two pieces together to remind your child that they make up one whole sandwich. Now cut the sandwich halves in half again. Ask, "How many pieces did I make?"

Count to discover an amount: At snack time, give everyone some food, such as a few pretzels or crackers. Ask your child to count the items in his pile. Did everyone get an equal, or the same, amount? If not, ask your child how many pieces you need to subtract from each pile to make them all the same.

Discover 3-D shapes from the cupboard: Give your child an empty, closed coffee or oatmeal container to help her discover the shape of a cylinder. Count the two bases (the top and bottom surfaces). Point out the circles on the bases. Explore all the ways to use a cylinder! Does it roll? How could your child use the cylinder's top or bottom?

## halt

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Adding and subtracting with stories: As your child winds down at bedtime, use fun math stories like these to help him learn to add and subtract.

## Addition Story

One happy friend
sings a song. (Hold up one finger)
Then another comes to
sing along. (Add another finger)
La, la, la, ding, ding, dong!
How many friends are
singing a song? TWO!
Two happy friends
sing a song. (Hold up two fingers)
Then another comes to
sing along! (Add another finger)
La, la, la, ding, ding, dong!
How many friends are singing the song? THREE!

Continue adding fingers; see how high you can go!

## Subtraction Story

Three little babies
are dancing in the bed. (Hold up three fingers)
One lies down to rest his head. (Put down one finger) Now how many babies are dancing in the bed? TWO!

Repeat the verse and actions using 2, 1, and "none."

Then say the final verse:
No little babies
are dancing in the bed.
All the little babies
went night-night instead!

End with shapes:
At bedtime, look at your child's picture books to find familiar shapes. Rotate the book and point out that the shapes stay the same - no matter which way the book faces!

Count down till bedtime:
Make lights-out count! Before you turn off the lights, hold up ten fingers. Then count down together, starting with the number ten: "Ten, nine, eight, seven, six, five, four, three, two, one. [Turn lights off.] Sweet dreams!"

## Q

playground, or beach, waiting to be discovered in ordinary objects. When you and your child talk about math discoveries, you help her know she can do math!

## AT THE PARK AND PLAYGROUND

Five is always five: Give your child five rocks. Ask: "How many different ways can you hold these rocks in your hands?" Help her get started by observing, "You could put two rocks in one hand and three in the other. Or you could put all five rocks in one hand." You can repeat this activity with other objects, too fallen pinecones, acorns, leaves and with other numbers.

Use chalk to make patterns: Draw a pattern on the sidewalk, such as circle, circle, square; circle, circle, square. Encourage your child to notice that a pattern is a series of pictures or things that repeat in the same way over and over again. Then hand the chalk to him and ask him to continue your pattern. Ask, "What comes next?" Take turns making patterns for each other.

Monkey around (and over, under, and through!): On a jungle gym, encourage your child to say where he is: "I am under the monkey bars. I'm on the highest platform." Your child could also move over, around, and through different parts of the playground.

Count anywhere: Pebbles in a garden, petals on a flower, or cracks in a sidewalk all provide wonderful chances to count!


## EXPLORE WITH SAND OR WATER

Write numbers: Practice writing numbers in the sand or dirt. Use a stick to make three lines and then ask your child to write the number that will tell how many lines you drew. Then do the reverse: Draw a number and ask your child to make that many lines.

Explore new shapes: In the sand, explore some more-complicated shapes.
You might try drawing an octagon (like a stop sign), or a rhombus (like a diamond). And don't stop there; introduce your child to other shapes, too! Then, talk about each shape. Count the sides, count the angles, and compare them all.

Measure as you play: Ask your child to predict which of three different-size cups will hold the most water and which will hold the least. As she uses a spoon to fill the cups, count how many spoonfuls it takes to fill each one. Were her predictions correct? If so, ask, "How did you know?" If not, arrange the cups in size order from largest to smallest. How does each cup differ from the next one?

## On the Go

## Adding a little math to a trip to

 the grocery store or the gas station doesn't have to take extra time. As a matter of fact, it can help engage your child and make the time fly!

## AT THE STORE

Make a numbered shopping list: Create a shopping list with numerals. For example, you might write, " 4 apples, 2 containers of yogurt, 12 eggs." As you shop for these items, count aloud.

Group items as you go: As you pass different displays, talk about how the items are organized. Point out the way things are grouped. Talk about how you might group things by color, size, or weight. Which items would go together?

Use math to involve your child: Ask your child to pick out two items while you pick out three. Put all the items into one bag. Then say, for example, "I put in three and you put in two. How many did we gather all together?" Then count to find out.

Predict: Before you weigh your fruits and veggies at the market, ask your child to predict which item will be the heaviest. Will a watermelon weigh more than a lemon? Why or why not? Then place your items on the scale. What number does the arrow point to? Explain that this is the item's weight. Test more predictions! Try using items that are close in size, such as an orange and an apple.

## While You Travel to the Store

1. Look for the smallest and biggest buildings. You can also try counting things such as thes see.
of benches, trash cans, or people that you
3 Can you spot numbers on houses?
(4) Point out the shapes of the different things that you pass. You might point to a circle. Ask, "What shape is that roof? What shape is that window?" You can also try counting things such as the number


While wh
While Waiting in
1 Look in your cart and in the Checlout Line your child knows. Call all around for numbers that (2) Try a package, a fingers and number or holds that Try tapping or clapping azine, or an aisle sion to find You might tap or clapping a number pattern. and then clap twice. And then clap twice, tap once
the pattern. Then for pattern. Then encourage hehild to continue
you to extend. to make up a pattern

#  

 math is everywhere! No matter where you are, no matter what you do, math will always follow you. Making math moments a part of every day helps strengthen your child's understanding of the world around her. With curiosity and a positive attitude, discovering math is not only fun, but sets your child on a path to becoming a lifelong problem solver, thinker, and innovator.SESAME STREET MATH IS EVERYWHERE Vice President, Outreach and Educational Practices: Jeanette Betancourt, Ed.D. Editor in Chief: Rebecca Herman Editorial Coordinator: Beth Sharkey
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## 123456789101112131415



One Fine Line: Number lines like this one can help your child learn to count! Your child can place a finger at any point on the line and move it from one number to another. How many places does she move between numbers?

## Math Talk

These pictures illustrate the meaning of some of the math words you can explore any time.

## Talk about numbers

Adding: To add is to put one or more things with a group of things and then count how many there are all together.

$2+1=3$

Subtracting: To subtract is to take one or more things away from a group of things and then count how many are left.


## Talk about shapes



## Cylinder!

A cylinder
has one curved surface and two circular bases.


Talk about directions


Directions: Great math words for talking about where things are in relationship to other things: under, over, around, through, behind, next to.

For more math words, visit sesamestreet.org/math.

## 121314151617181920

One Fine Line: Number lines like this one can help your child learn to count! Your child can place a finger at any point on the line and move it from one number to another. How many places does she move between numbers?

Una línea fina: Líneas enumeradas como esta puede enseñar a sus niños ia contar! Sus niños pueden poner uno de sus dedos sobre la línea y moverlo de un número a otro. ¿Cuántos lugares se mueven entre números?

## Talk about numbers Hablemos de números

Adding: To add is to put one or more things with a group of things and then count how many there are all together.

Sumar: Sumar es agregar una o más cosas a un grupo y luego contar cuántos hay en total.

$2+1=3$

Subtracting: To subtract is to take one or more things away from a group of things and then count how many are left.

Restar: Restar es quitar una o
más cosas de un grupo de cosas y luego contar cuántos quedan.


## Comparisons Comparaciones

Great math words to use as you
compare, group, and sort:
large, small, light, heavy.
Excelentes palabras matemáticas para usarlas al comparar, agrupar y separar: Grande, pequeño, liviano, pesado.

