

Summer Math Adventure

K-2



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Introduction and Welcome



Welcome to the K-2 Summer Math Adventure program! You can access the program at the following website:

bit.ly/WMCSummer

Use the grid of activities to explore math this summer. Complete all of the activities in a row, column, or diagonal to earn a prize. Complete all 25 activities for a bonus prize!

Click on the links in the grid to explore different activities. Click on the image of the grid in the lower right corner to return to the grid. Have fun!

Visit <https://forms.gle/YePghR3rNj6JYYuJ7> or scan this QR code with your mobile device to help us make this program better



Summer

Math Adventure

Around the Home

Scavenger
Hunt

Measuring
Without a
Ruler

What's Outside
Your Window

The Shoe
Rack

3D Shapes

Outdoors

Bean Bag
Toss

Sidewalk
Chalk
Challenge

Neighborhood
Numbers

Math Play

Shapes at
the Park

The Arts

Sound
Songs

Make a Math
Art Book

Tessellations

Mondrian
Window Art

Quadrilateral
Art and
Graphing

Books

Sheep
Won't
Sleep

Max's Math

One Big Pair
of Underwear

Counting on
Katherine

The Animals
Would Not
Sleep

Games & Puzzles

Number
Hunt

Before and
After

Add and
Subtract
Bingo

Sum It Up

Counting
Simon Says



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0	1
1/2	2/3
5	8
10	One dozen
20	About one hundred
About one thousand	About one million
-1	2 by 3

Scavenger Hunt

Make a table similar to the one on the left.

Search around your home - inside or outside - for groups of different sizes.

Write the item, or draw a picture of the item, in your table.

For example, if you find 5 forks in a drawer, write “forks” or draw a fork in the box with a 5.

Happy searching!

Adapted from: <https://www.mathanywhere.org/printables/>

K-2 Summer Math Program					
Around the Home	Outdoors	The Arts	Books	Games and Puzzles	
Scavenger Hunt	Bean Bag Toss	Symmetry Art	Sheep Won't Sleep	Number Hunt	
Estimation	Math Walk	Make a Math Art Book	Max's Math	Hexagon Challenge	
What's Outside Your Window?	Neighborhood Numbers	Tessellations	One Big Pair of Underwear	Add and Subtract Bingo	
The Shoe Rack	Math Play	Mordian Window Art	Counting on Catherine	Sum it Up	
Crazy Train	Shapes at the Park	Quadrilateral Art and Groggery	The Animals Would Not Sleep	Counting Simon Says	

Measuring Without a Ruler

Find some small common household items (for example, spoons or squares of toilet paper)

Using your household items, measure different objects around your home (for example, how many spoons high is your chair? How many squares of toilet paper across is your table?)

Measure the same objects with different household items.

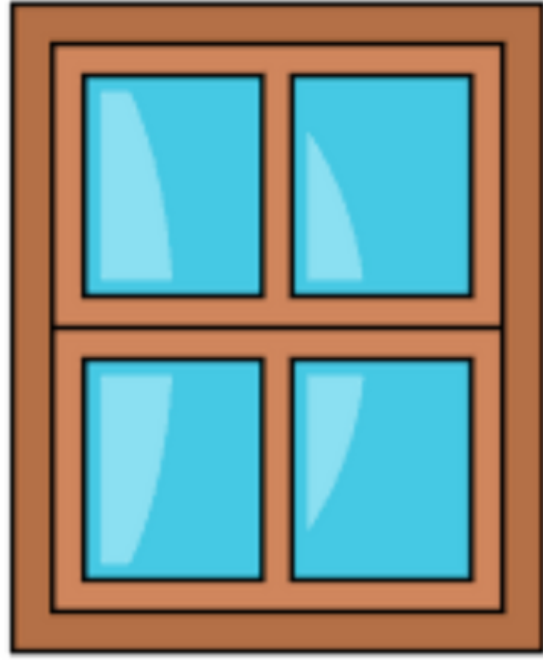
Write down the objects you measured along with the measurements you made.

Adapted from: <https://www.pbs.org/parents/crafts-and-experiments/measure-things-without-a-ruler>



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What's Outside Your Window?



Pick an amount of time to watch outside your window.

Keep track of what you see. Are people walking by? Are birds hanging out? How many trees do you see? Collect data on what you see.

Find a way to visualize the information you collect. Maybe use a chart or a timeline.

Be creative and have fun!

Adapted from: <https://www.youcubed.org/resources/whats-going-on-outside-your-window-k-12-video/>

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The Shoe Rack

What do you notice and wonder about the shoe rack?

What math questions can we ask about the shoe rack?

Organize the shoes in your house in 2 rows, 3 rows, and 4 rows.

How can you organize the shoes in different ways?



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The Shoe Rack	Math Play	Mondrian Window Art	Counting on Catherine	Sum it Up	
Crazy Train	Shoppers at the Park	Quadrilateral Art and Grouping	The Animals Would Not Sleep	Counting Simon Says	

Adapted from: <https://mathathome.mathlearningcenter.org/activity/1661>

3D Shapes

Look for 3D shapes in the pantry and/or refrigerator.

Can you find a sphere? Can you find a cylinder? Can you find a cone? Can you find a rectangular prism? What is the strangest shape you can find?

Extension: go to the grocery store and have a scavenger hunt for these shapes!



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Bean Bag Toss



Use sidewalk chalk to draw a target circle.

Toss bean bags, or wet sponges, or balled-up socks at the target.

Talk about how many are in the circle, and how many are outside.

Create a scoreboard with chalk to keep track of the tosses.

Adapted from: <https://earlymath.erikson.edu/taking-math-out-for-a-spin-outside-activities-for-kids-that-have-math/>

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Sidewalk Chalk Challenge

Take some sidewalk chalk to your sidewalk.

Write the number “0” on the sidewalk square closest to your home.

Counting by 2’s, keep writing numbers on the squares moving away from your home.

Starting at your home count out loud by 2’s forward away from your home.

Count out loud backward toward your home.

Tomorrow do the same thing in the other direction, but count by 5’s.

Next week, do the same thing but count by 10’s.



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Neighborhood Numbers



Go for a walk in your neighborhood and notice the numbers on houses and mailboxes.

What numbers do you notice? How do you say the numbers?

Are the numbers getting bigger or smaller?

What do you notice about the numbers on the other side of the street?

Can you predict the next number?

Adapted from: <https://www.youcubed.org/resources/neighborhood-numbers-k-5-video/>

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Math Play

- Go for a walk to somewhere in your neighborhood.
- Find opposites: something high, low, near, and far
- Find shapes: triangles, circles, squares, rectangles
- Find this many: groups of a few, some, and a lot
- Find sizes: something big, small, short, and tall
- Find ways to go: over, under, in and on



Adapted from: <https://www.mathanywhere.org/printables/>

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Shapes at the Park

Go to the park with a special mission - to find all the shapes you can!

Use pictures, numbers, and/or math words to show or tell what you see

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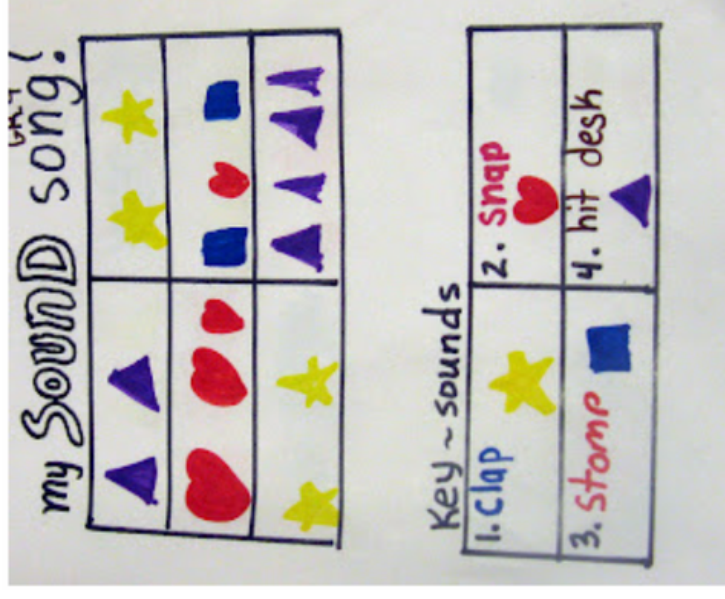
Adapted from: <https://mathathome.mathlearningcenter.org/activity/1665>

Sound Songs

Create a key, where different shapes are equivalent to different sounds.

Then, create a song by drawing patterns of your different shapes.

Share your song with a family member or friend!



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Crazy Train	Shapes at the Park	Quadrilateral Art and Graphing	The Animals Would Not Sleep	Counting Simon Says

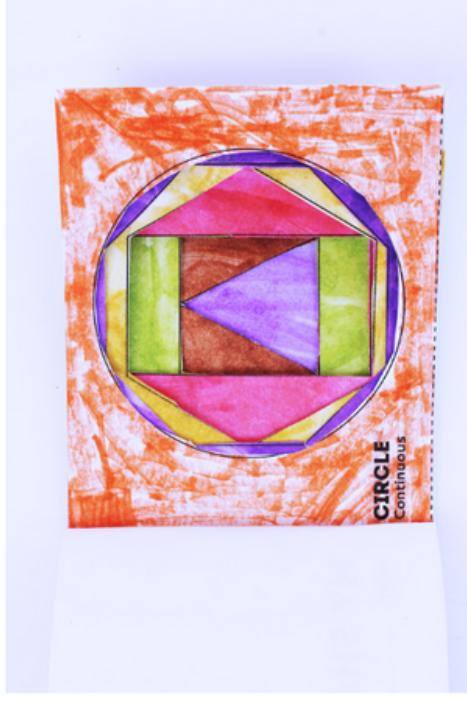
Adapted from: <https://themicciclef.blogspot.com/2013/03/sound-songs.html>

Make a Math Art Book

Click on the image on the right to print a template for your book.

Cut out the pages and the inner shapes. Keep and color the frames of the pages.

Layer the pages and staple along the left side.



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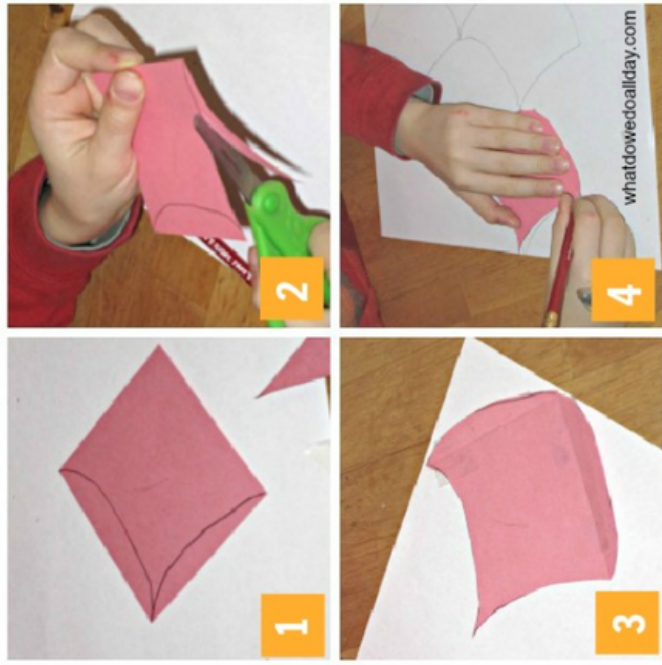
Adapted from: <https://www.whatdowedoallday.com/math-art-book-project-shapes>

Tessellations

1. Cut a square out of heavy paper.
2. Draw a design from corner to corner on the bottom of the square. Cut this out and tape it to the top of the square.
3. Draw another design from corner to corner on the left hand side of the square. Cut this out and tape it to the right side of the square.

Trace this pattern onto paper and color your design.

Adapted from: <https://www.whatdowedoallday.com/math-art-tessellations/>



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Mondrian Window Art



Use painters tape to create a geometric design on a window.

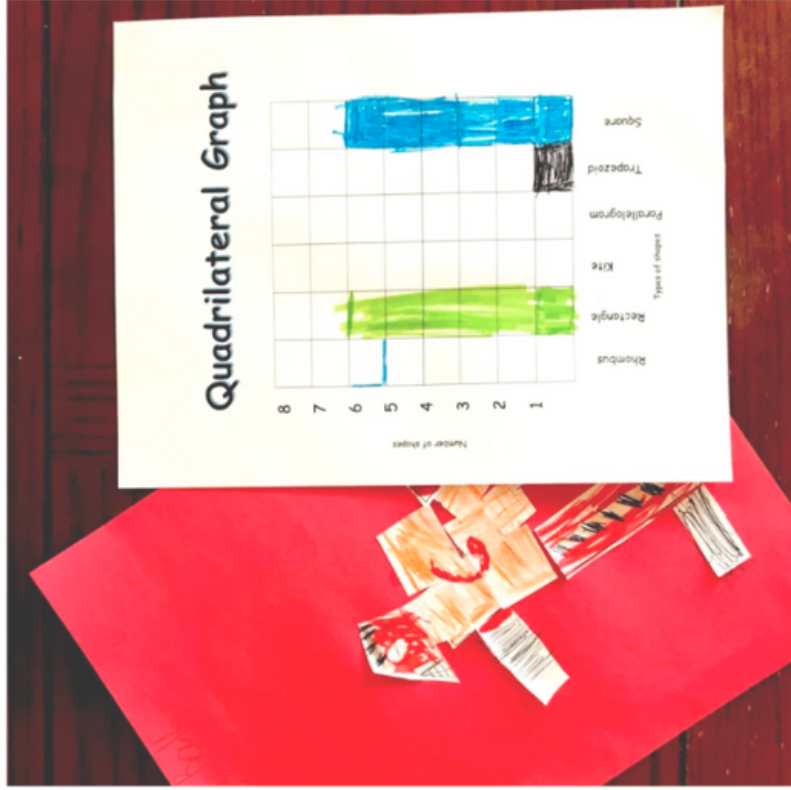
Paint with bright yellow, red, and blue washable tempura paint.

Peel off the tape. If you choose, use black washable tempura paint to paint black borders.

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Crazy Train	Shapes at the Park	Quadrilateral Art and Graphing	The Animals Would Not Sleep	Counting Simon Says	

Adapted from: <https://www.whatdowedoallday.com/mondrian-for-kids-stained-glass-window-art>

Quadrilateral Art and Graphing



Have a parent cut out a bunch of quadrilaterals (perhaps use [this link](#) for a printable set of quadrilaterals).

Create a piece of artwork with some of the quadrilaterals.

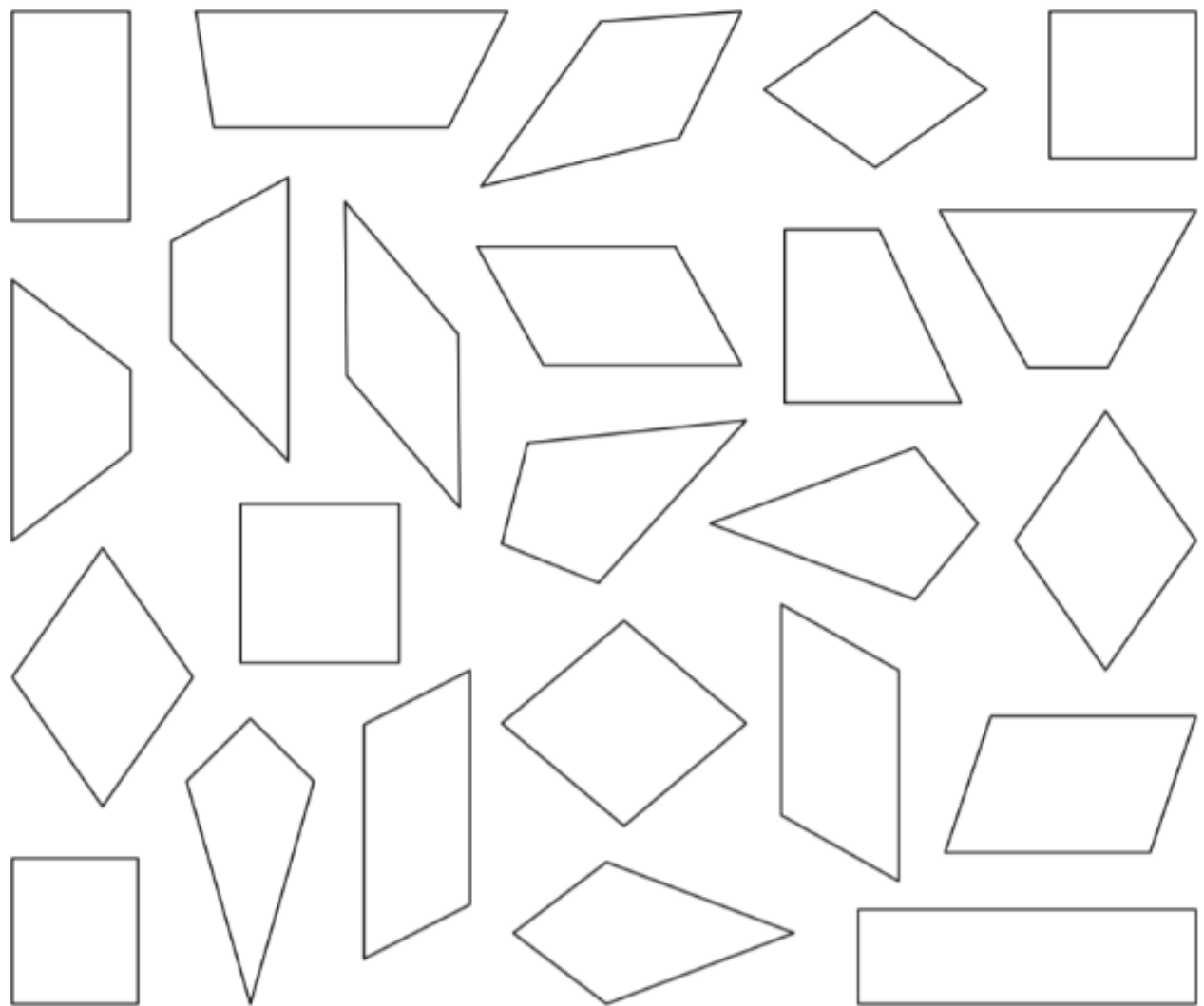
Make a graph that shows how many of each quadrilateral you used.

K-2 Summer Math Program

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Estimation	Math Walk	Make a Math Art Book	Max's Math	Hangman Challenge
What's Outside Your Window?	Neighborhood Numbers	Tessellations	One Big Pair of Underwear	Add and Subtract Bingo
The Shoe Rack	Math Play	Mondrian Window Art	Counting on Catherine	Sum it Up
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Adapted from: <https://youvegotthismath.com/quadrilateral-art/>

Quadrilaterals



Sheep Won't Sleep

What are new vocabulary words in this book?

Trace a lot of handprints on paper, and count the handprints by 5's. How many total fingers are there? Try counting by 5's backward.

Find all the shoes in the closet, and count the pairs of shoes by 2's. How many total shoes are there? Try counting by 2's backward.

Try to identify the patterns on the yaks (pp. 14-15)

If this book is not available, substitute any book on the list of [books at this link](#).



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Max's Math

As you read, ask yourself, “what shapes are on this page?”

As you read, ask yourself, “what numbers are on this page?”

Max saw a 6 (or was it a 9?) lying in the grass. Why was Max unsure of what number it was? How can you tell? Do you know any other numbers or any letters like this?

If this book is not available, substitute any book on the list of [books at this link](#).

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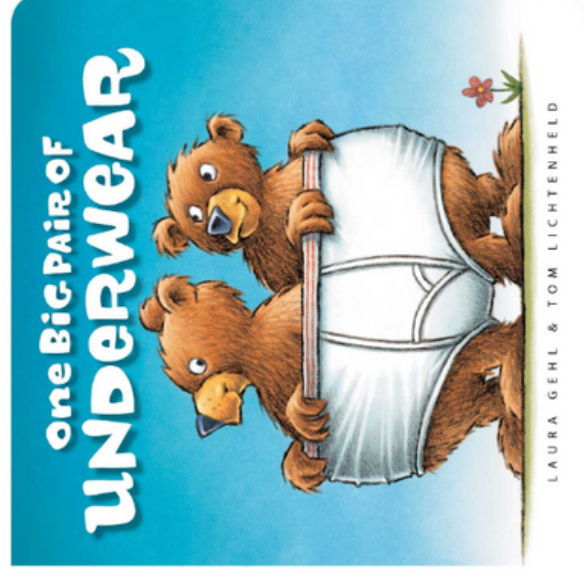
One Big Pair of Underwear

What are examples of words in this book that rhyme?

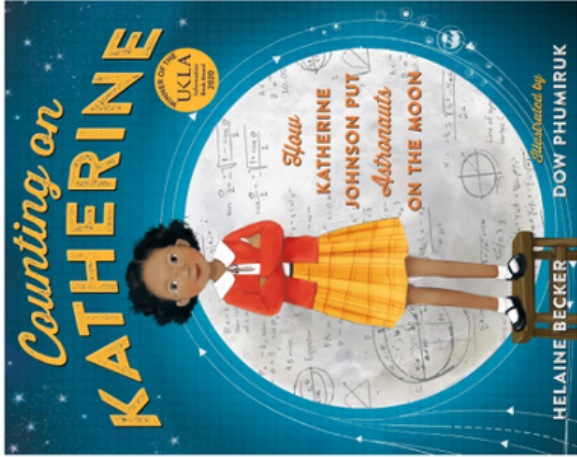
Write all of the numbers in the order they appear in the book. Complete the list of numbers between 10 and 20

Write and/or draw a situation similar to the ones in the book. There should be a number of objects between 1 and 10, and a number of animals who want to share the objects.

If this book is not available, substitute any book on the list of [books at this link](#).



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Counting on Katherine

Why do you think Katherine enjoyed working on very hard problems?

Have you ever been blocked from doing something you really wanted to do? How did you react?

Katherine was known for asking plenty of questions. What questions do you have about her or her work?

If this book is not available, substitute any book on the list of [books at this link](#).

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The Animals Would Not Sleep

What was your favorite way to sort Marco's animals?

Can you think of another way to sort the animals?

Gather all of your stuffed animals, and practice sorting them like Marco did.

Play a game called "Secret Selection" with a friend or parent. Line up all of your stuffed animals (or any other object). Secretly choose one of the objects. Have the other person ask yes-no questions to try to guess which object you chose.

If this book is not available, substitute any book on the list of [books at this link](#).



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Number Hunt

Have a parent create a puzzle like the following:

- It's more than 43.
- It's less than 50.
- It's an even number.
- Both digits are the same.
- What is my number?

The parent reads the clues, and the child uses a 100 chart to try to determine the winning number.

Adapted from: <https://www.youcubed.org/resources/number-hunt-k-8-video/>

Hundreds Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

[youcubed.about.com](https://www.youcubed.org/resources/number-hunt-k-8-video/)

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Before and After

You will need a deck of cards. Use only the cards 1 (Ace) through 10.

Deal each person five cards and leave the rest of the cards face down on the table. The youngest player starts by playing any card in their hand. The next player can play a card either one more (before) or one less (after) than the card on the table. If a player can't play, that person should draw cards until they can play.

Take turns until someone runs out of cards, or neither player can play.

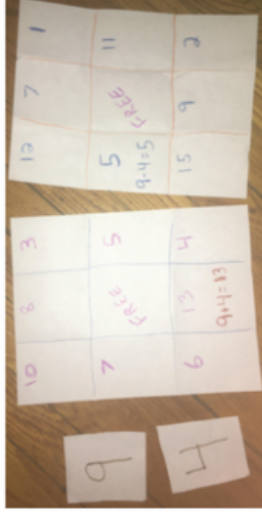
As a variation, you can play with more than two players!



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Add and Subtract Bingo

Draw a 3x3 bingo card. Write FREE in the center square, and any different numbers 0-15 in the remaining squares.



Use a deck of cards. Remove the face cards (jacks, queens, kings) and shuffle the cards. An ace counts as a “1”.

Draw two cards. To claim a space, write an addition equation or a subtraction equation that matches one of the numbers written on your card.

Continue until someone has three in a row!

Adapted from:

https://www.mathlearningcenter.org/sites/default/files/pdfs/home-learning/family-games/FamilyGames_AddanSubtract.pdf

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Estimation	Math Walk	Make a Main Art Book	Max's Math	Hexagon Challenge	
What's Outside Your Window?	Neighborhood Numbers	Tessellations	One Bag Pair of Underwear	Add and Subtract Bingo	
The Shoe Rack	Math Play	Mordian Window Art	Counting on Caterpillars	Sum it Up	
Crazy Train	Shapes at the park	Quadrilateral Art and Graphing	The Animals Would Not Sleep	Counting Simon Says	

Sum It Up

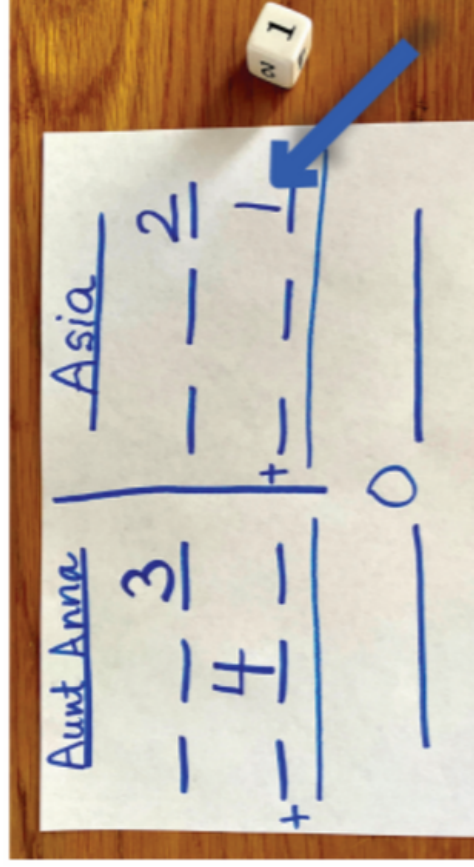
Play with a partner. Create a template like the one on the right.

Take turns rolling a die. Write the number on the die on any available space on your side.

Play continues until each player has rolled the die six times and has filled in every line.

Add the numbers. The player with the highest number wins!

Adapted from:
https://www.mathlearningcenter.org/sites/default/files/pdfs/home-learning/family-games/FamilyGames_SumItUp.pdf



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Counting Simon Says



Adapted from:
<https://www.pbssocal.org/education/pbs-socal-family-math/easy-tips-and-tricks-to-add-a-little-math-to-six-nostalgic-kids-games>

Play this game with a partner or a group.

Follow the rules of Simon Says, but there is also a number with each activity that is called. For example, “Simon says turn three times” or “Simon says jump five times” .

K-2 Summer Math Program					
Around the Home	Outdoors	The Arts	Books	Games and Puzzles	
Scavenger Hunt	Bean Bag Toss	Symmetry Art	Sheep Won't Sleep	Number Hunt	
Estimation	Math Walk	Make a Math Art Book	Man's Math	Hexagon Challenge	
What's Outside Your Window?	Neighborhood Numbers	Tessellations	One Big Pair of Underwear	Add and Subtract Bingo	
The Shoe Rack	Math Play	Mondrian Window Art	Counting on Catherine	Sum it Up	
Crazy Train	Shapes at the Park	Quadrilateral Art and Graphing	The Animals Would Not Sleep	Counting Simon Says	

K-2 Math Book List

Readers - substitute any book on this list for any one of the books on your grid.

Parents - read any book with your child and discuss the math within the book.

Absolutely One Thing: Featuring Charlie and Lola by Lauren Child
The Animals Would Not Sleep by Sara Levine
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
Hippos Go Berserk! by Sandra Boynton
How Many Jelly Beans? A Giant Book of Giant Numbers! by Andrea Menotti
Is 2 a Lot?: An Adventure with Numbers by Annie Watson and Rebecca Evans
Lifetime: The Amazing Numbers in Animal Lives by Lola M. Schaefer
Max's Math by Kate Bank
Nothing Stopped Sophie: The Story of Unshakable Mathematician Sophie Germain by Cheryl Bardoe
One Big Pair of Underwear by Laura Gehl
One Grain Of Rice: A Mathematical Folktale by Demi
Pigeon Math by Asia Citro
Shapes, Reshape! by Silvia Borando
Sheep Won't Sleep: Counting by 2s, 5s, and 10s by Judy Cox
3x4 by Ivan Brunetti
Uma Wimple Charts Her House by Reif Larsen and Ben Gibson
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

Librarians - use this list to create a display of books for your Summer Math Program.