

Welcome



A Few Things Before We Get Started

- ✓ Think about a favorite book/story and why do you like it.
- ✓ Have the picture you took on your phone handy.
- ✓ Have only your **first name** under your picture.
- ✓ Have available a few sheets of **paper and a pencil/pen**.

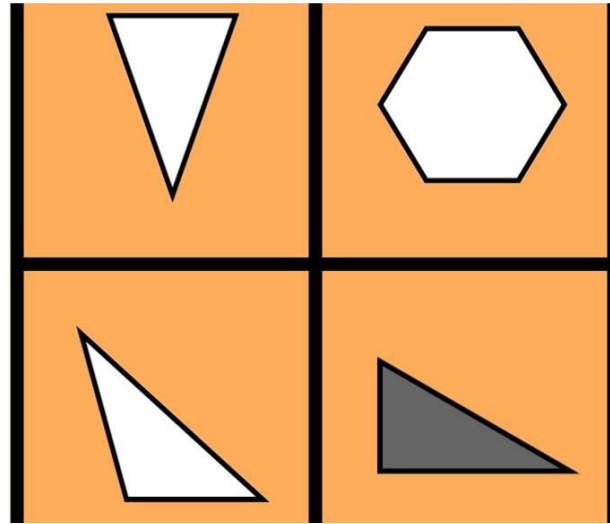
Welcome and my hope is that you will be an active participant during the session.

Many Thanks!

Dr. Judy

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25	43

1



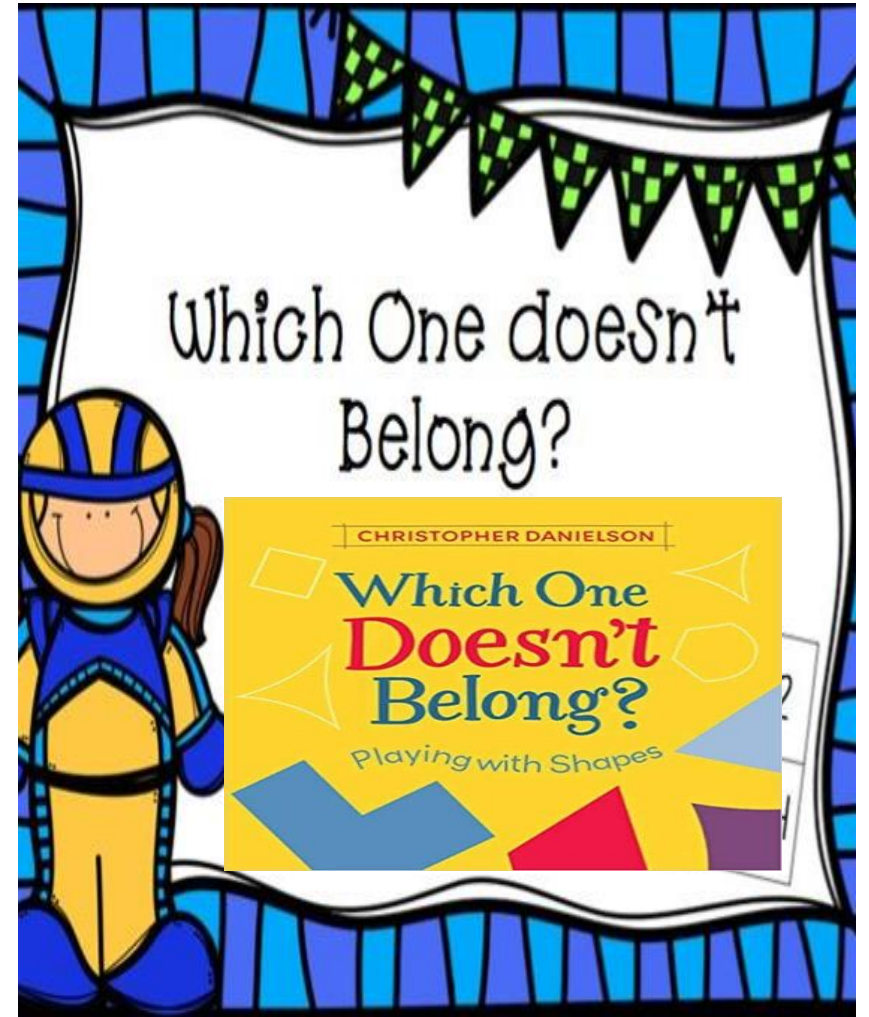
2



3



4



Which One Doesn't Belong?. Decide which set of four does not belong. And tell us why you made that choice.

“I Spy Math in Books”
An Effective Tool for Near-Peer Tutors
Let Me Count the Ways

Judy Reinhartz, Ph.D.
jreinhartz@utep.edu

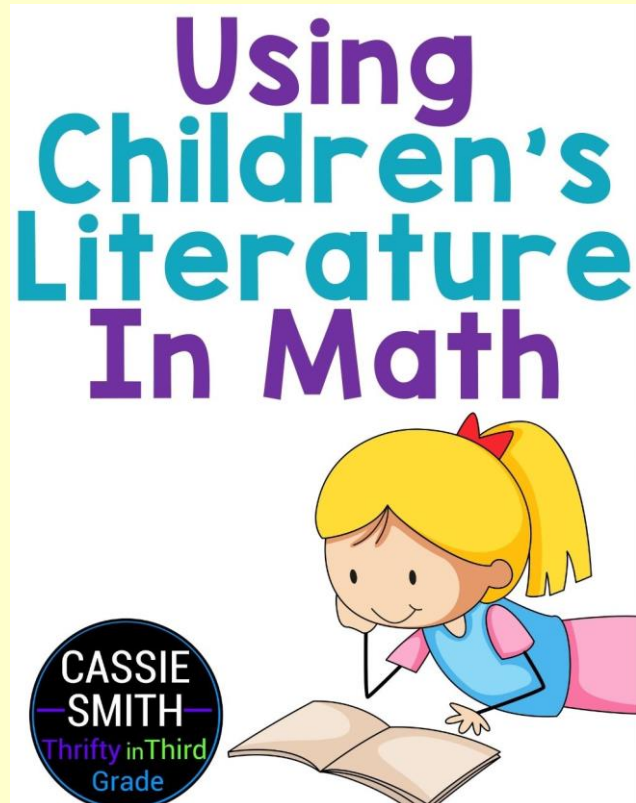
MathAmigos, Lead & Literacy Coach
<https://mathamigos.org/math-and-literacy/>
Professor Emeritus, The University of Texas at El Paso

Near-Peer Tutoring Session
Santa Fe Public Schools
April 12, 2023



Ques:

Agenda **Session Agenda**



Part I: Welcome & Introduction

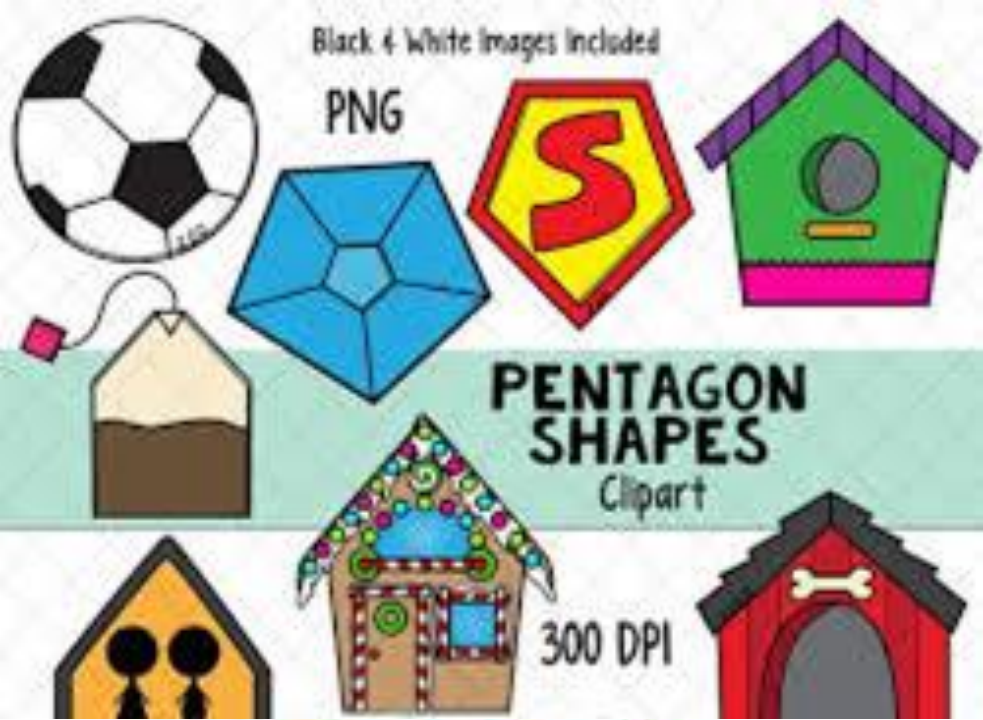
- A. Getting Started
 1. Q&A
 2. Math is Everywhere. Looking at your pictures
- B. What do you know about children's books and learning math?

Part II: Why Books? Let me count the ways, we have eight (8) today!

Part III: Sharing Resources

- A. Book list with links (you have)
- B. MathAmigos Website

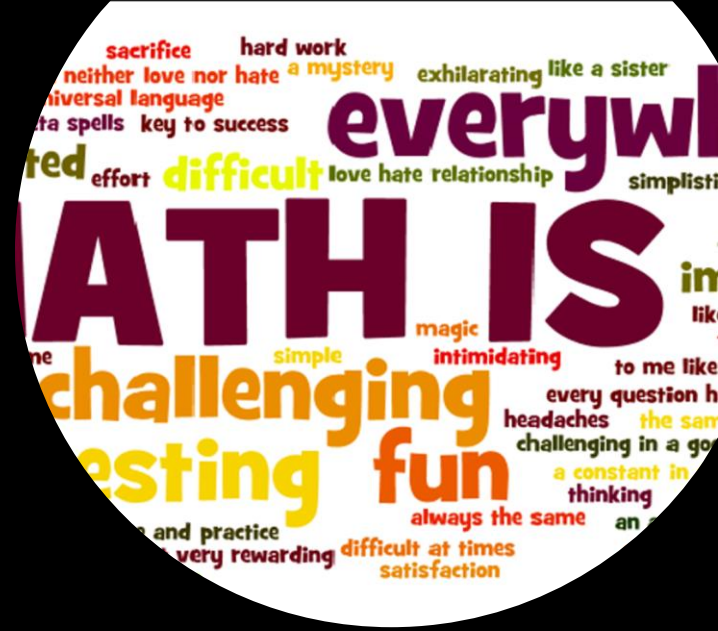
Part IV: Q&A and "Take Aways"



Math is Everywhere

- I. Last week you were asked to take a picture with your phone.
 - a. What did you capture with your picture?
 - b. Is it the inside of a room, the outdoors?

- I. What math can you find in your picture? Let's use the *whip around strategy*—everyone participates!



Can you find it?

The power of books!

“I Spy Math in Books” because, they ...

a Stimulate natural curiosity, imagination, and interests.

b Inspire reasons to “talk math.”
(L, S, R, & W)

c Encourage role playing characters and become a part of the math story.

d Provide a context for math learning beyond worksheets, making math less scary and mysterious.



Why Do We Read Books and Stories?

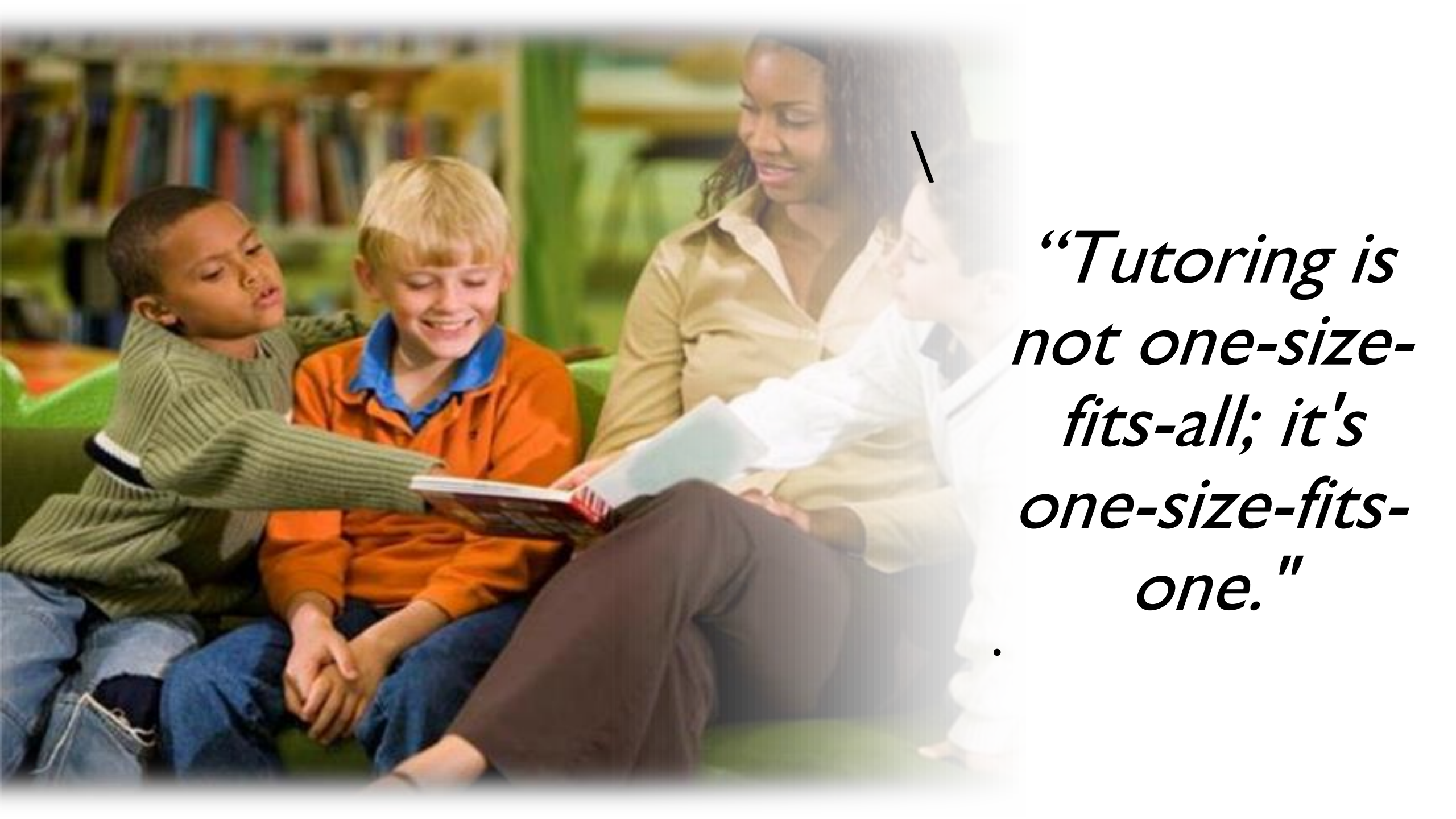
To:

1. Learn new ideas.
2. Be entertained.
3. Identify with the heroes, underdogs, &/or heartbreaks.
4. Explore & figure out problems in enjoyable ways.
5. Stimulate our imaginations.
6. Apply ideas using different techniques.

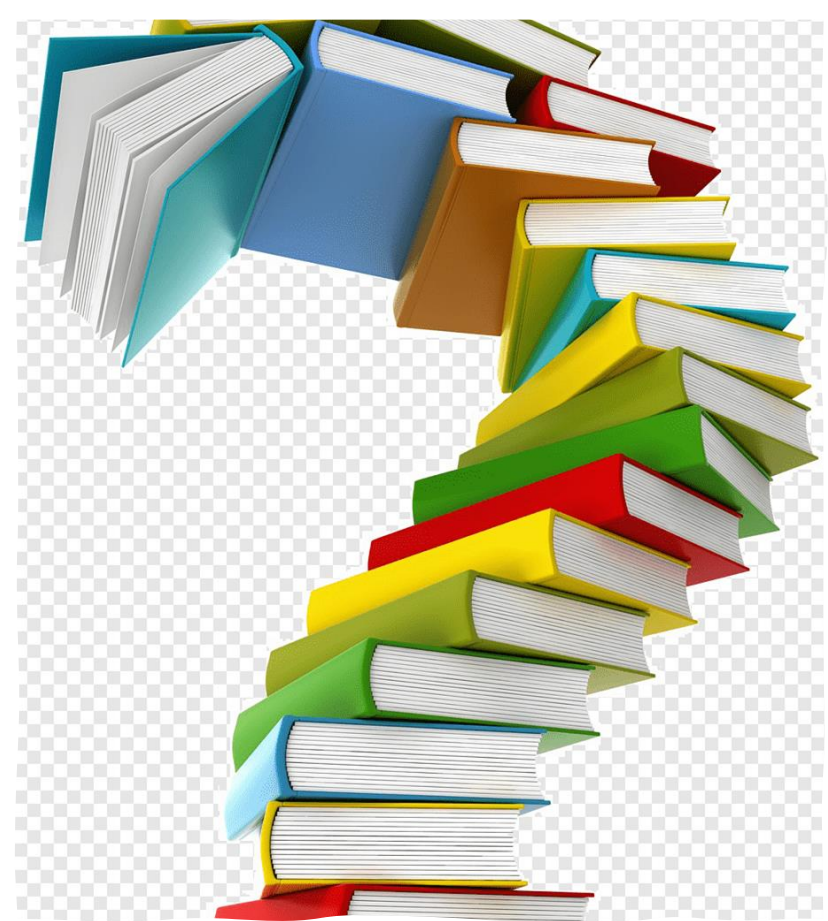
What makes a book or story good?

Entertaining, Educational,
Relatable, Organized, & Memorable.





“Tutoring is not one-size-fits-all; it's one-size-fits-one.”



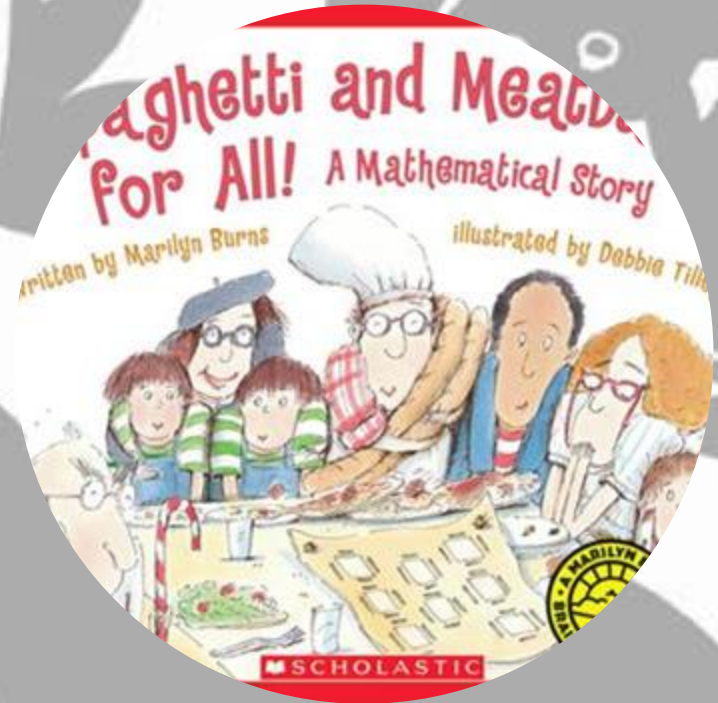
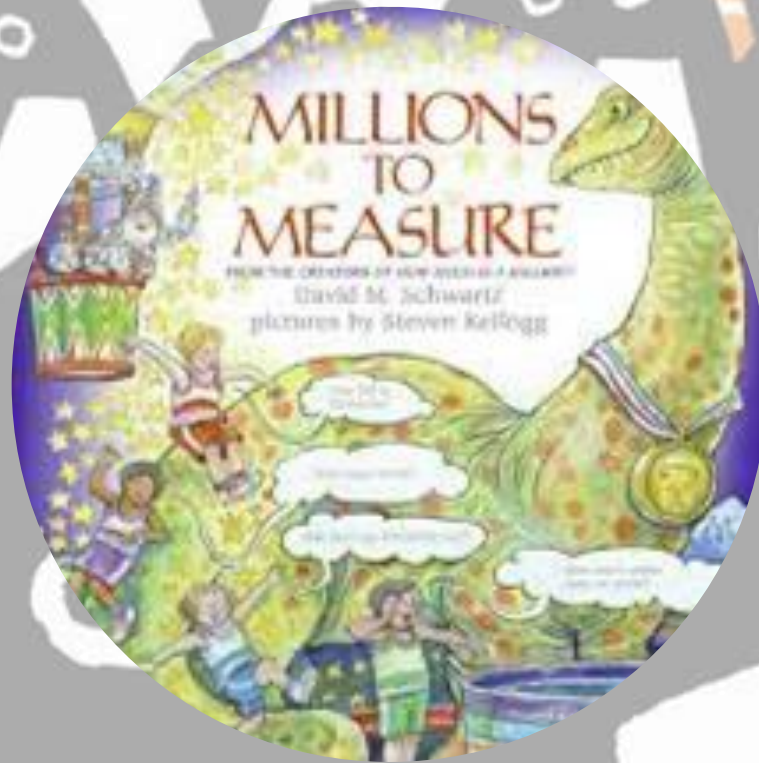
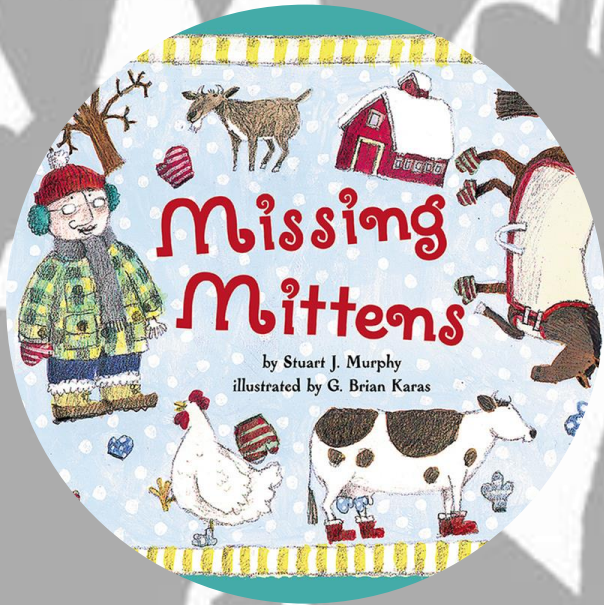
Jot down your
ideas

What are the benefits/advantages of books?
Why should peer tutors consider using
books?

Let's check

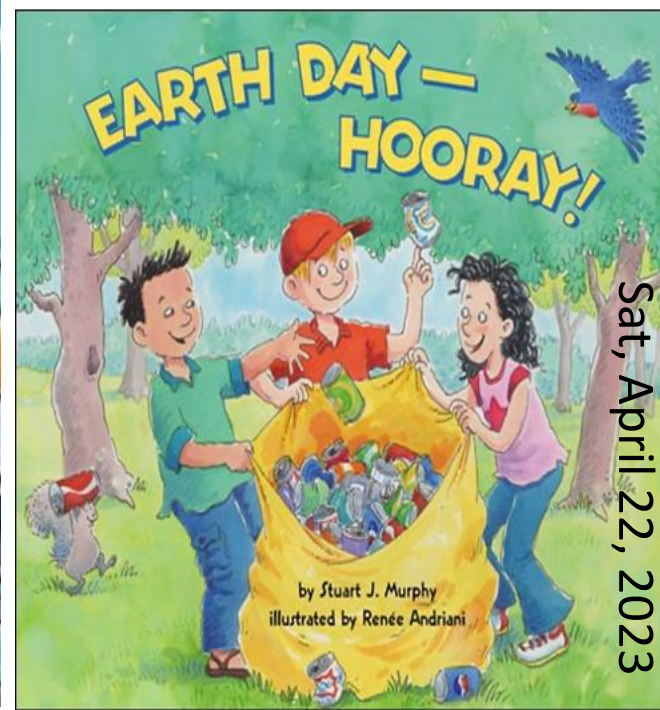
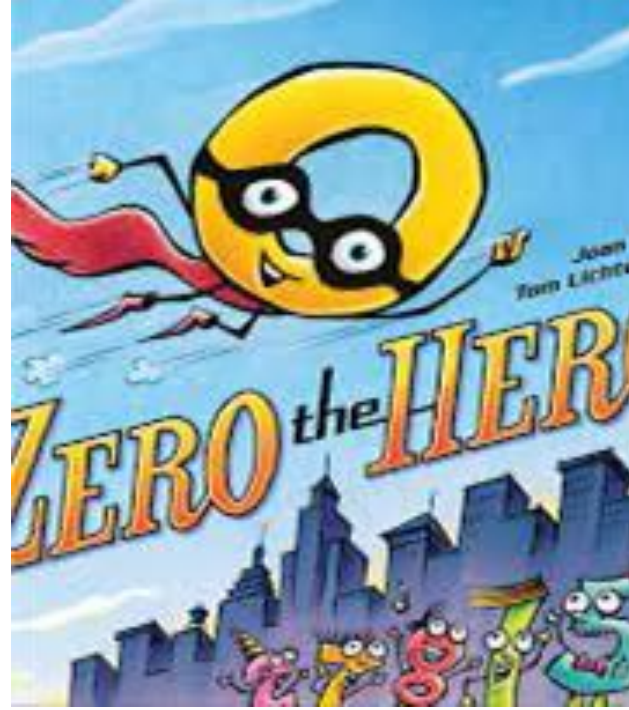
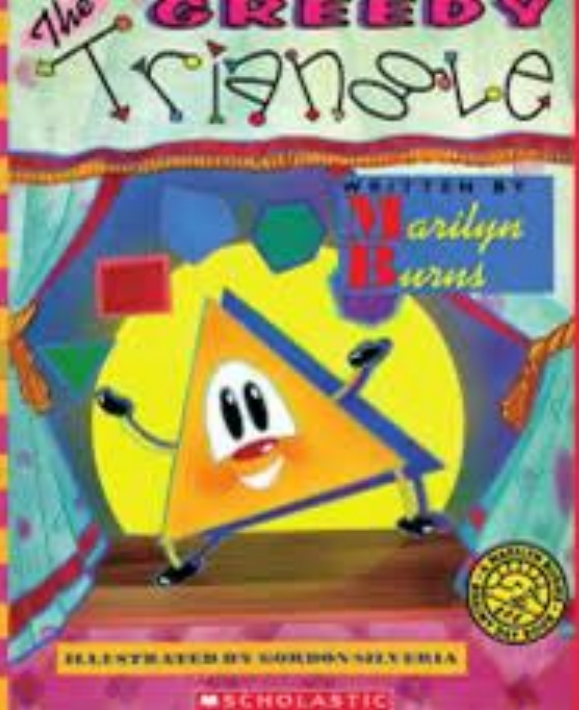


So,
Why Books?

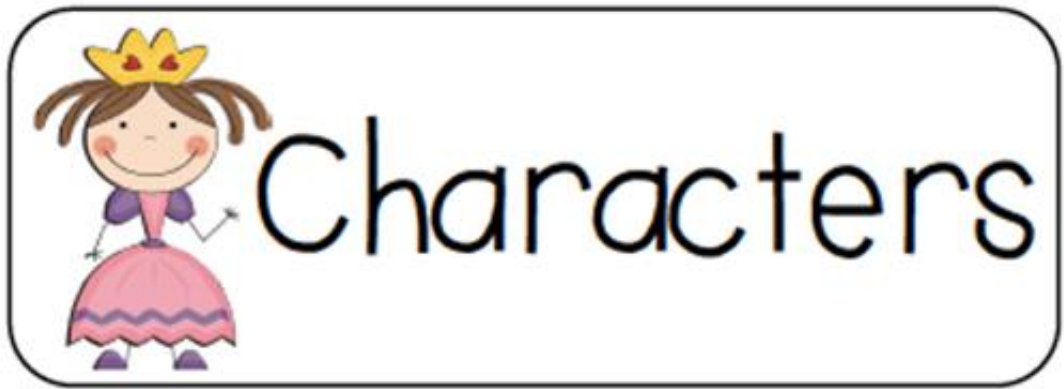


Books help you teach students math
and the **Why** beyond learning it.

Let's Get Started!!



Sat, April 22, 2023



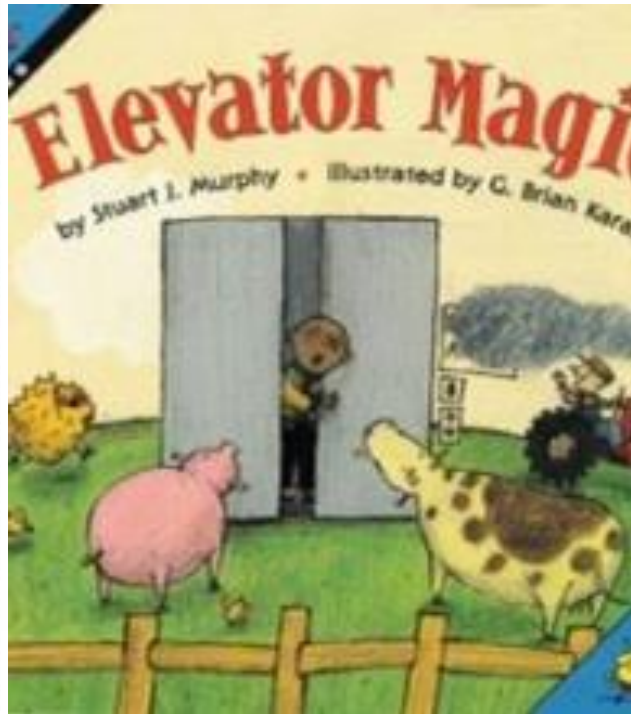
Why books?

Grab Students' Attention

- Colorful covers appeal to the senses!
- Catchy titles!
- Action heroes!
- Relatable (familiar/unfamiliar) settings!

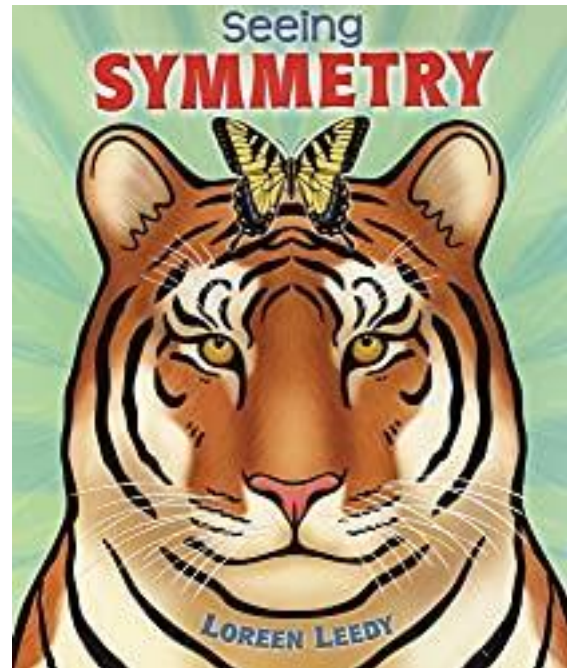
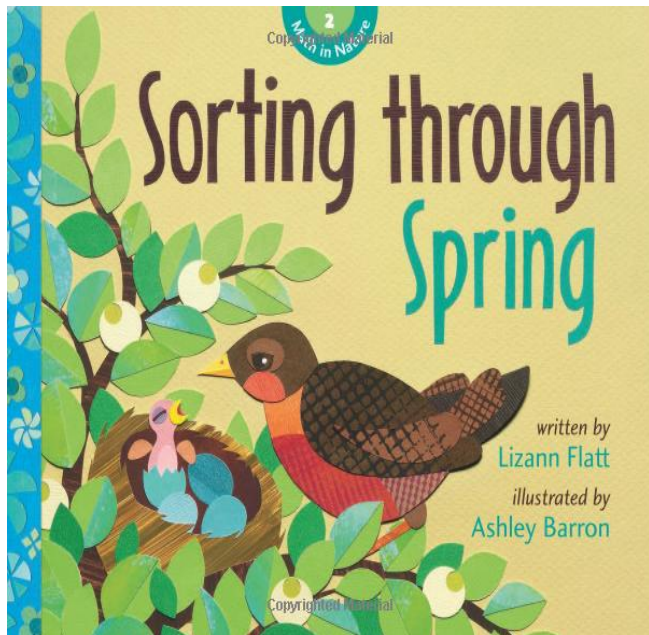
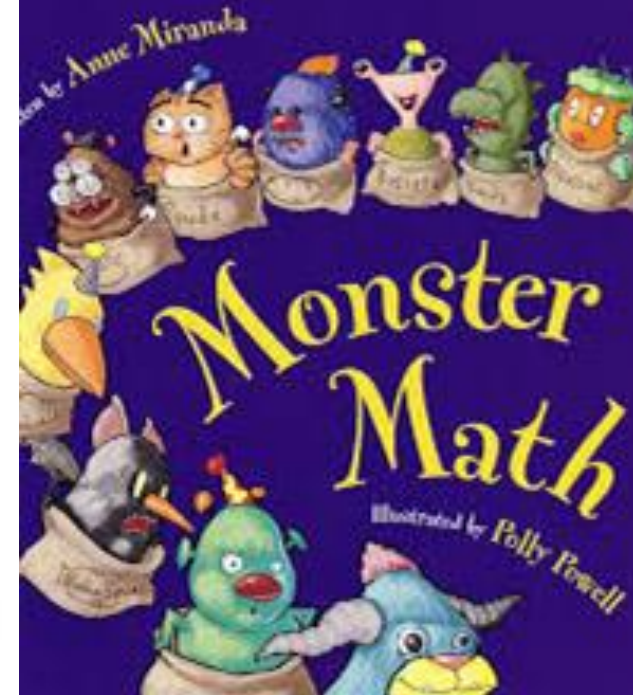
Subtraction

take away
decrease minus
less left
take $-$ left
fewer subtract
how many more
difference



Addition

join altogether
plus $+$ sum
combined add
in all both
total
increase

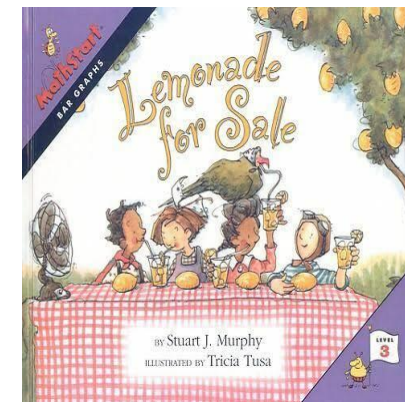
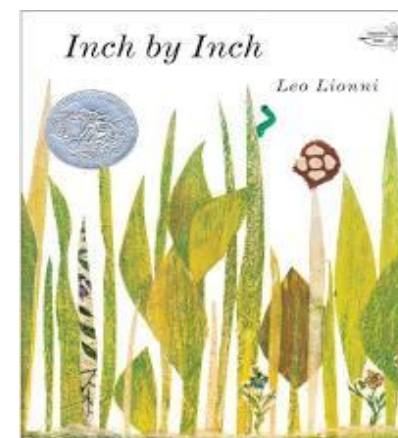
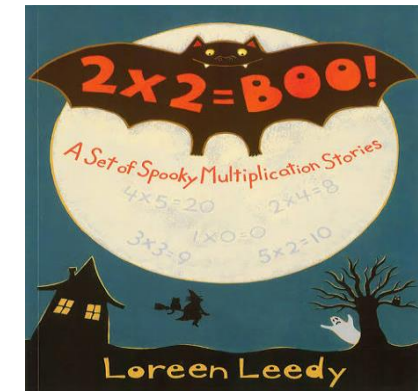
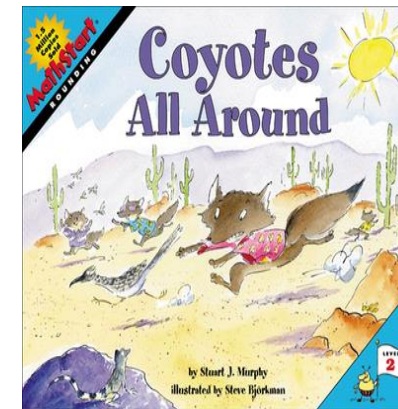
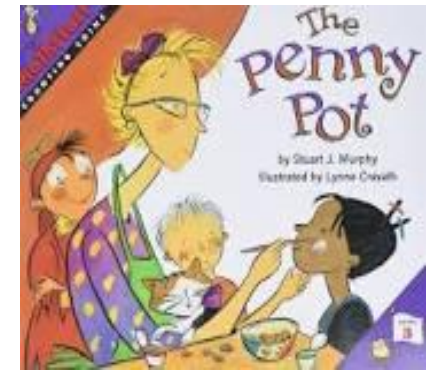
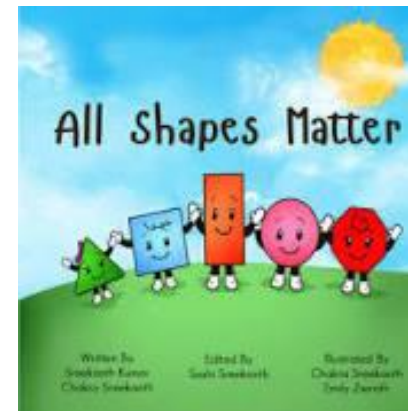


Why books?

Offer a *context/place* to show how math is part of our everyday language.

MUCH IS A MILLION?

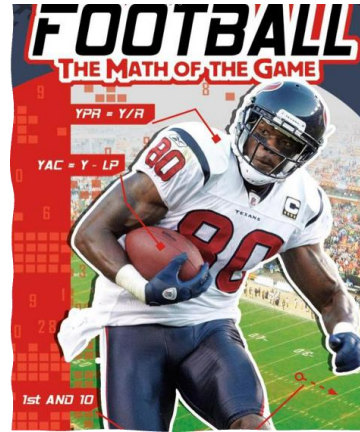
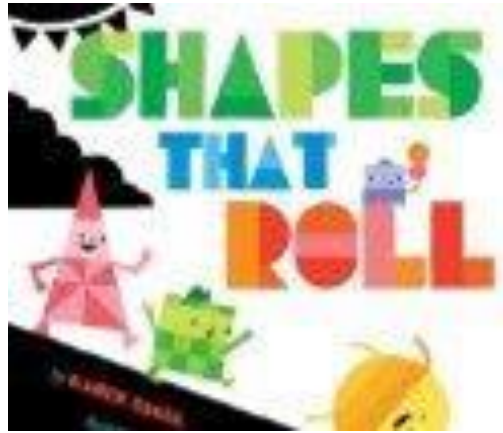
by David M. Schwartz
pictures by Steven Kellogg



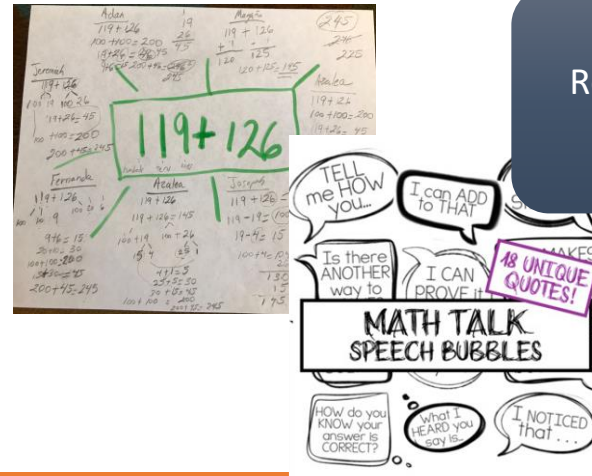
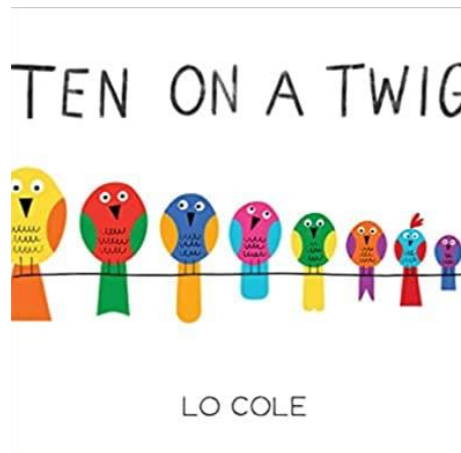
Why Books?

Math is
presented in
meaningful
ways.

Why Books?



Encourage

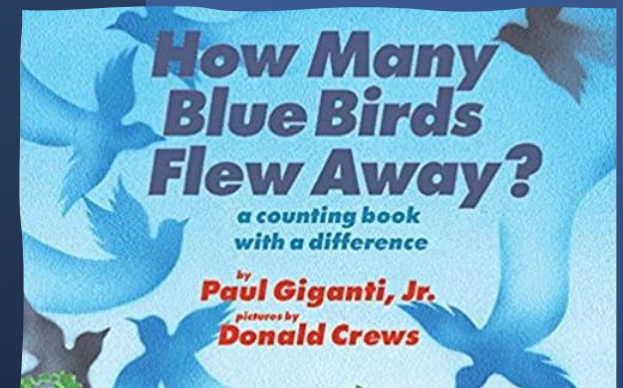
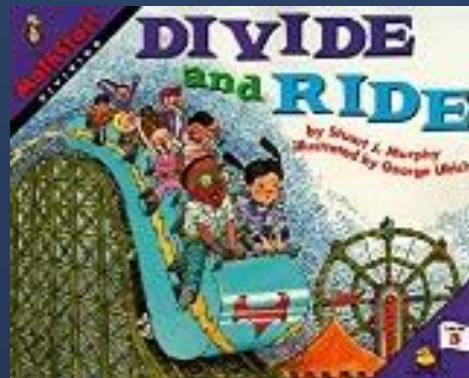
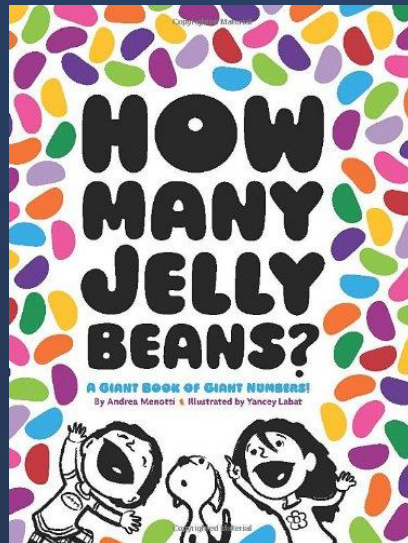
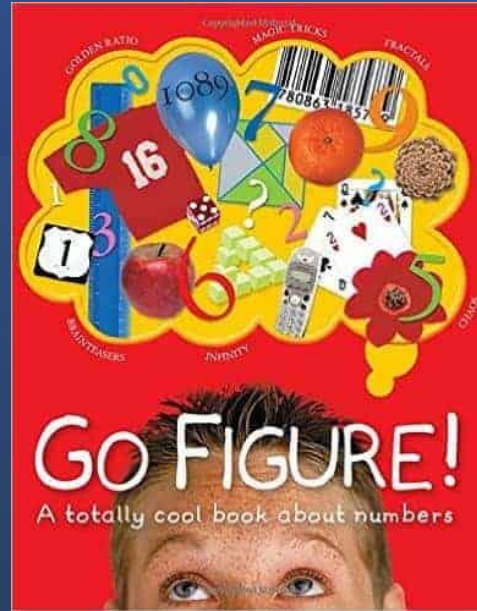
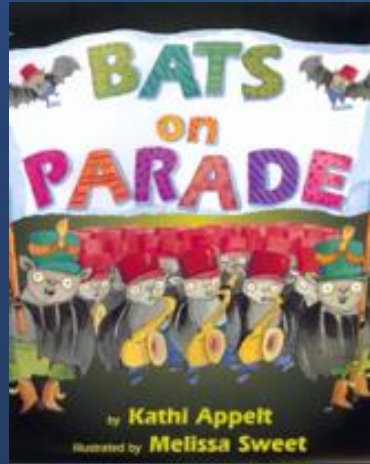


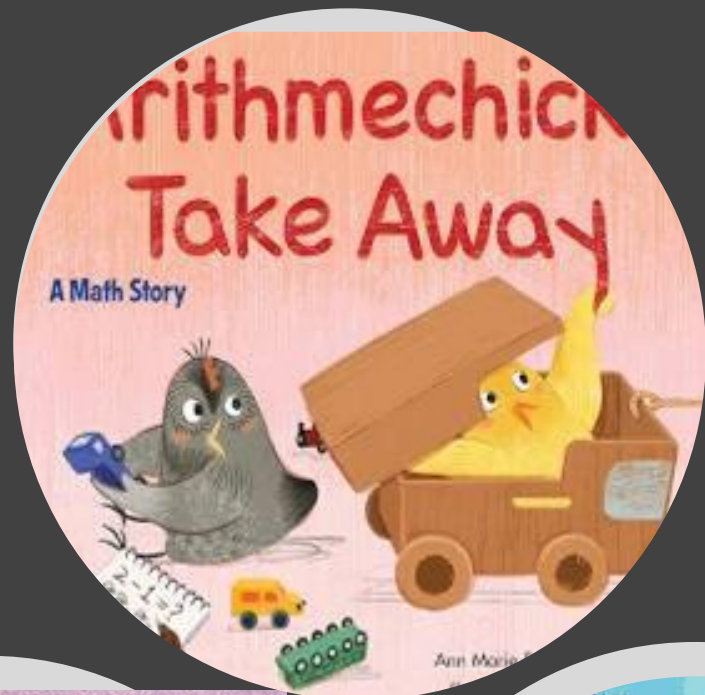
Retell stories in own words

“Math Talks”

Why books?

Make connections,
show relationships, and
display patterns
that help us remember
and retain information.

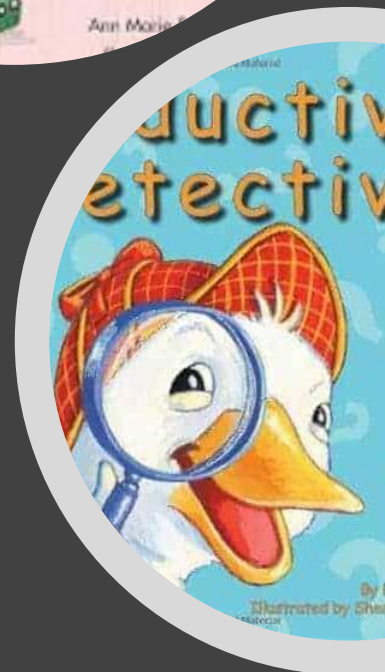
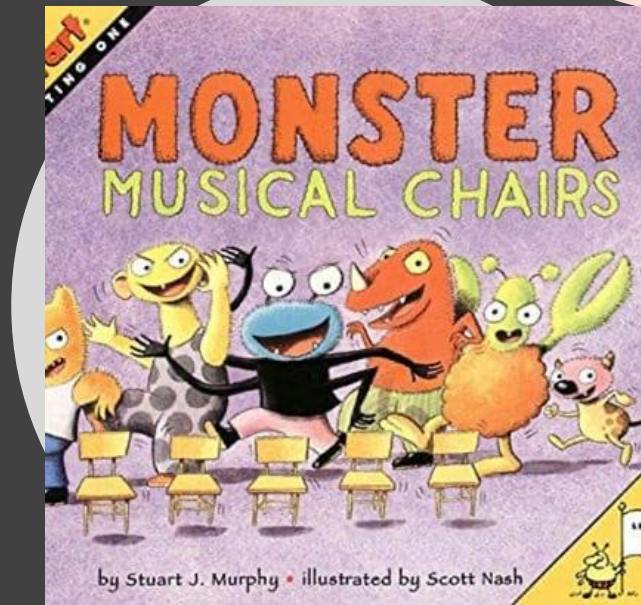




Why books?

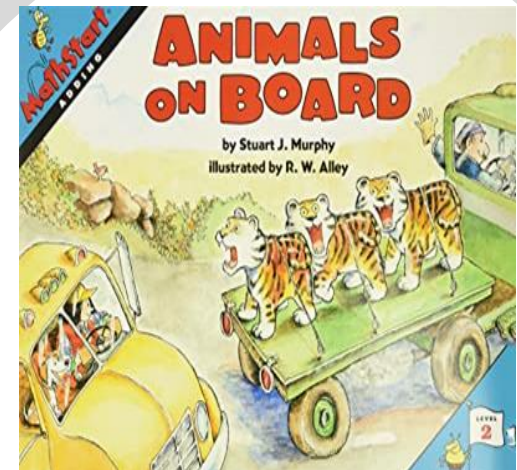
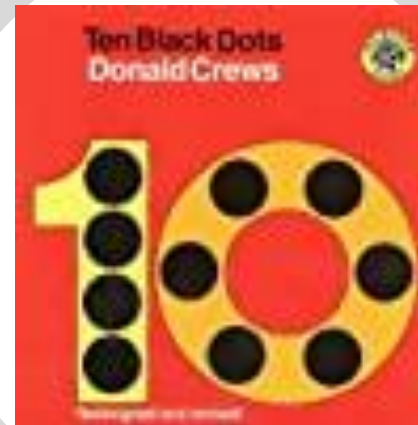
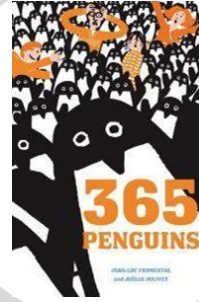
Inspire students to share personal experiences about their favorite sports, amusement parks, toys

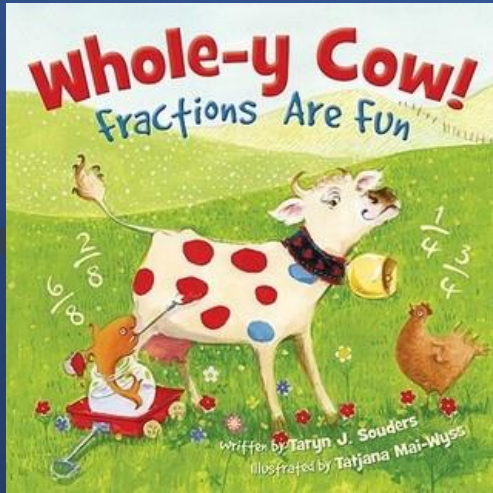
- Books make math personal.



Why Books?

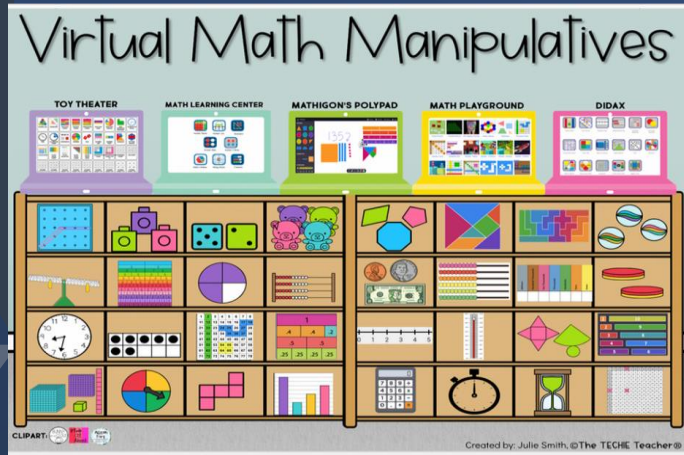
Offers pictures, graphics, images, & other visual cues to explain math terms.



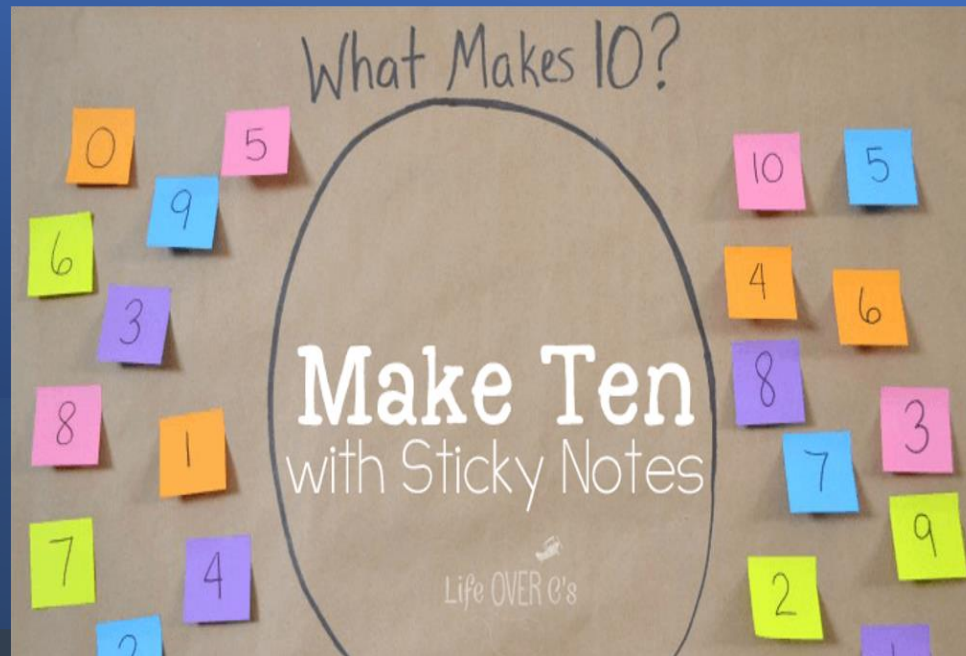
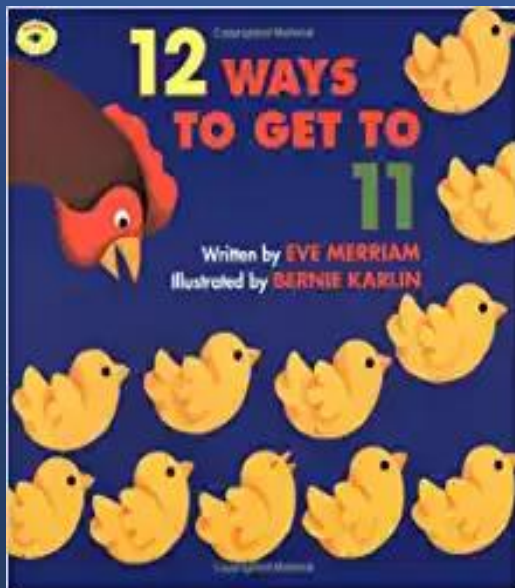


Why books?

Provides opportunities to use physical objects.



https://docs.google.com/presentation/d/1jadlg9nk64U9gVWtj4QEbd-AEzVtCXQeH-y44LPXIF3M/present?slide=id.g27b693dca5_0_261



Why books?

Spark ideas for activities and games to practice math.

<https://ttoytheater.com/inch-worm/>

Mathemagical Times Program

<https://mathamigos.org/mathemagical-times-summer-program/>

Activity Sheets for five books to Download at

<https://mathamigos.org/wp-content/uploads/2020/06/student-activities-the-lions-share.pdf>




And remember, you can read books several times and different ideas pop up to explore after each reading!



Well, it is

Thank you for traveling the
“I Spy Math in Books Journey”
with me this afternoon!

And if you need a resource to
use with your students,
consider using a book!



Time to say goodbye.





Thank you!

Math? Yes you can!
Fostering a Growth Mindset with Books!

Keep in Touch

Dr. Judy, jreinhardt@utep.edu

- ◆ What is still rounding around in your head? Questions?
- ◆ What stood out for you today?
- ◆ Complete an “exit ticket” in the chat, please respond to these sentence frames:

- ◆ I thought that ...
- ◆ I was surprised to learn
- ◆ I discovered
- ◆ I found _____ interesting.

- ◆ I might use _____.



