

Do You "Read" Math? YES!... Through Literature

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Agenda

- Math Trade Books
- Connections to Math Concepts
- Instructional Strategies
- Example
- Your Turn!
- Questions
- Follow up Survey

Math Trade Books

Definition

Math Trade Book: Definition

- Often written to **spark interest**, create a desire to read
- Many contain colorful, interesting **illustrations, photographs, and diagrams**
 - Draws students into the text
 - Improves comprehension
- Available at every **reading level** and on every **math topic**
 - Can differentiate instruction

Think

- How do Math Trade Books *compare* to Math Textbooks?

Pair: Turn and Talk

- What are the pros and cons of using Math Textbooks?
- What are the pros and cons of using Math Trade books?

Connections to Math Concepts

- General Topics
 - Concepts
 - Grade Levels

Examples of Math Trade Books (Grades 6-8)

- See Handout
- Titles may appear under more than one strand
- Titles may fit content in more than one grade
- SO (specific objective), based on one school's curriculum, ignore this number

General Topics

- Number & Operations
- Patterns & Relations
- Geometry
- Statistics & Probability
- Puzzles & Problems
- Histories & Biographies

Concepts

- Can find a title aligned with:
 - most content standards
 - Most practice standards

Grade Levels

- Reading level (prerequisite for understanding the math)
- Math level
- Differentiation

Instructional Strategies

- Who Reads the Book
- Who Writes Problems
- Grouping Arrangements

Who Reads

- Teacher
- Students to themselves
- Students to each other

Who Writes Problems

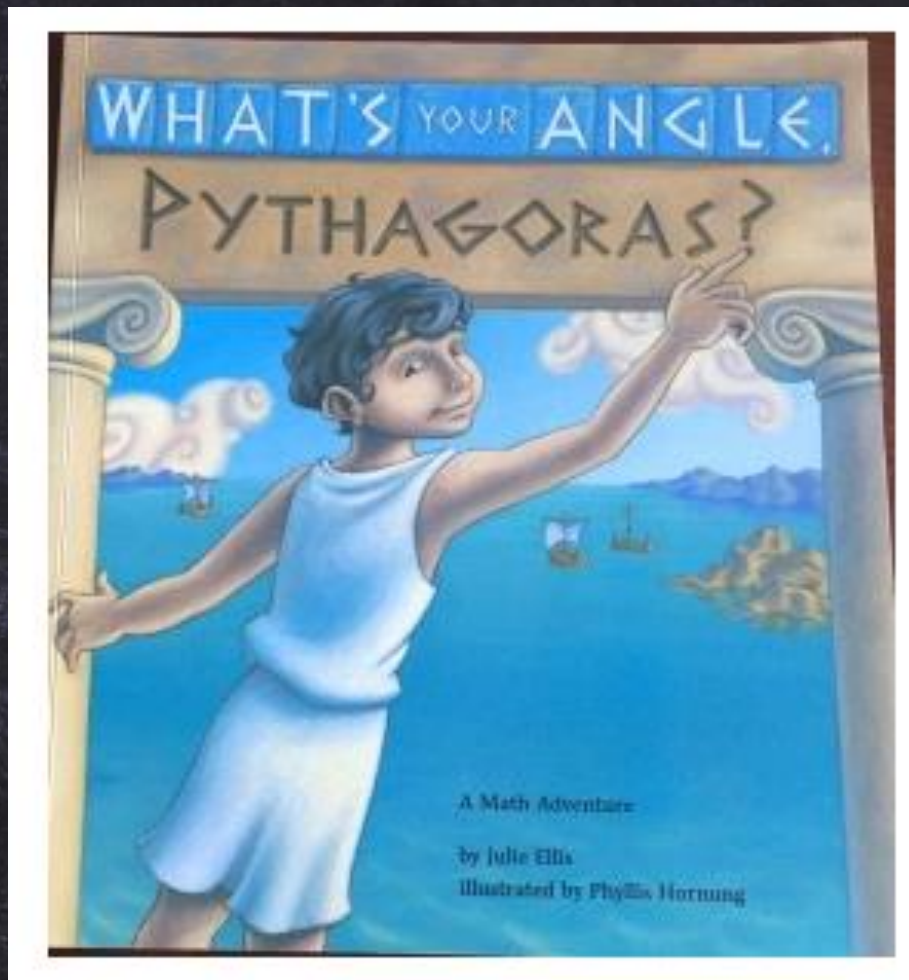
- Teacher
- Individual students
- Students working together

Grouping Arrangements

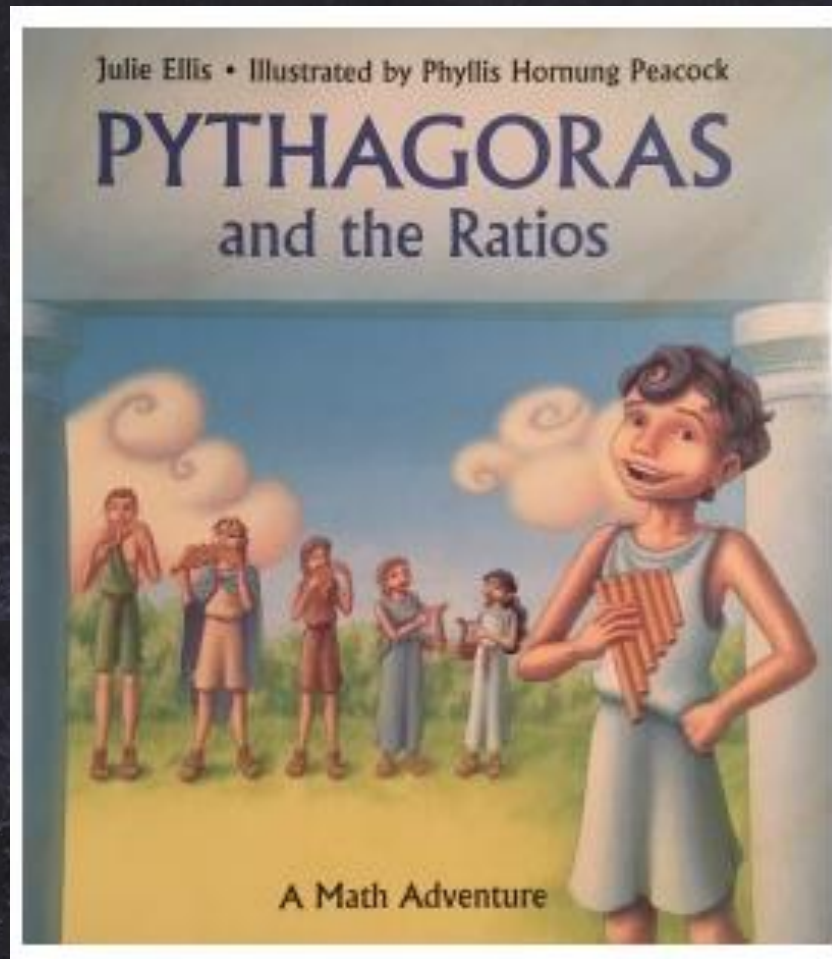
- Whole Class
- Small Group
- Individual
- Combination

Example

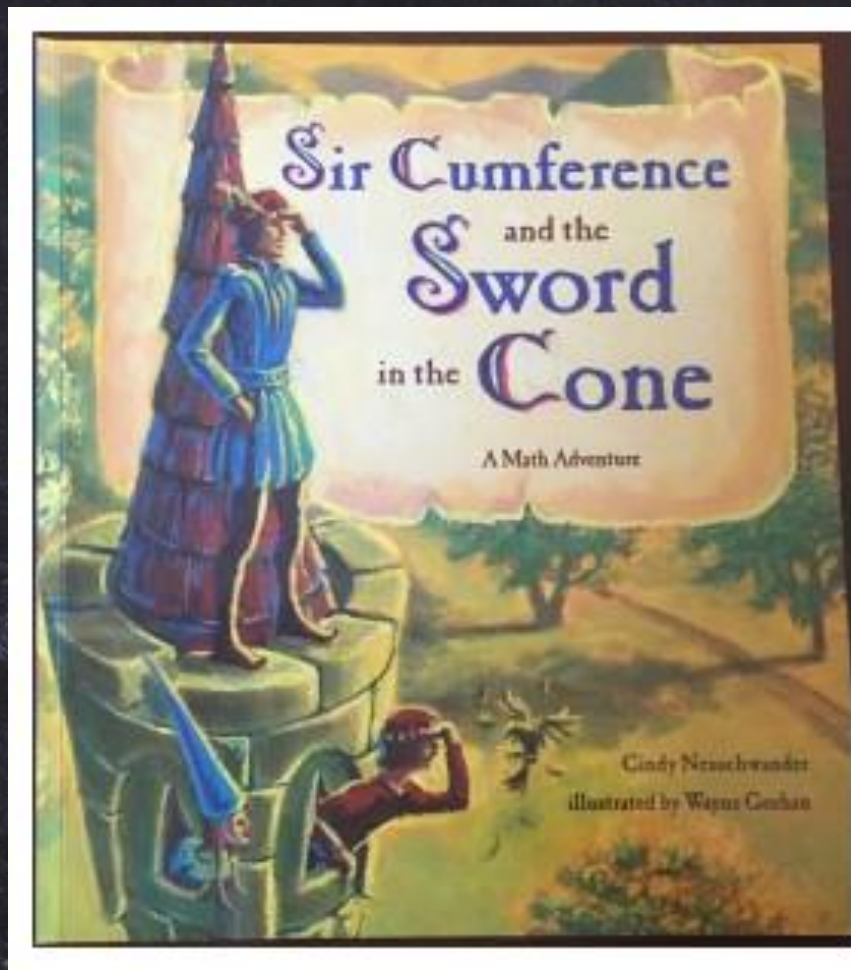
- Popular Titles
- Classroom Vignettes



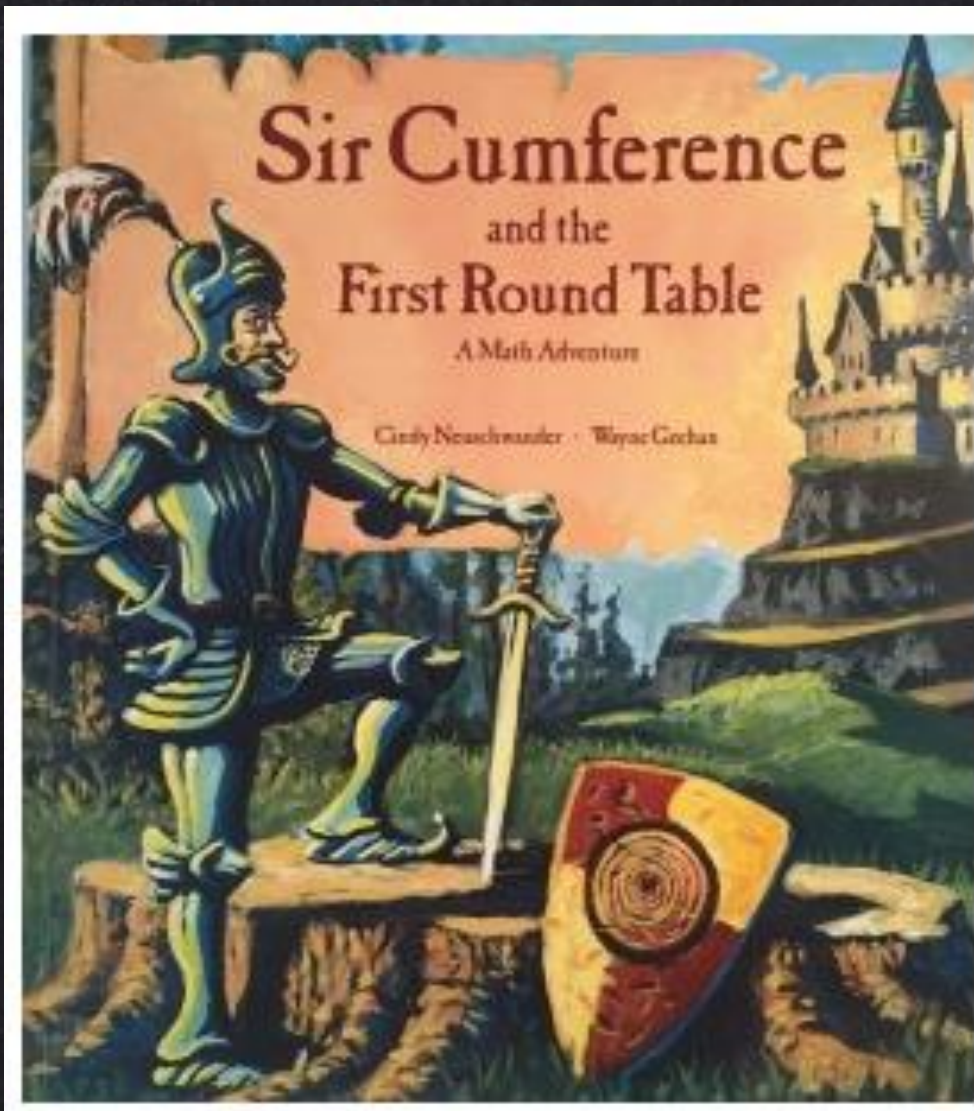
Covers 3,4,5-triangle, the Pythagorean Theorem, and area formulas. Math level 7th and up.



Covers ratios and music. Math level 6th and up.

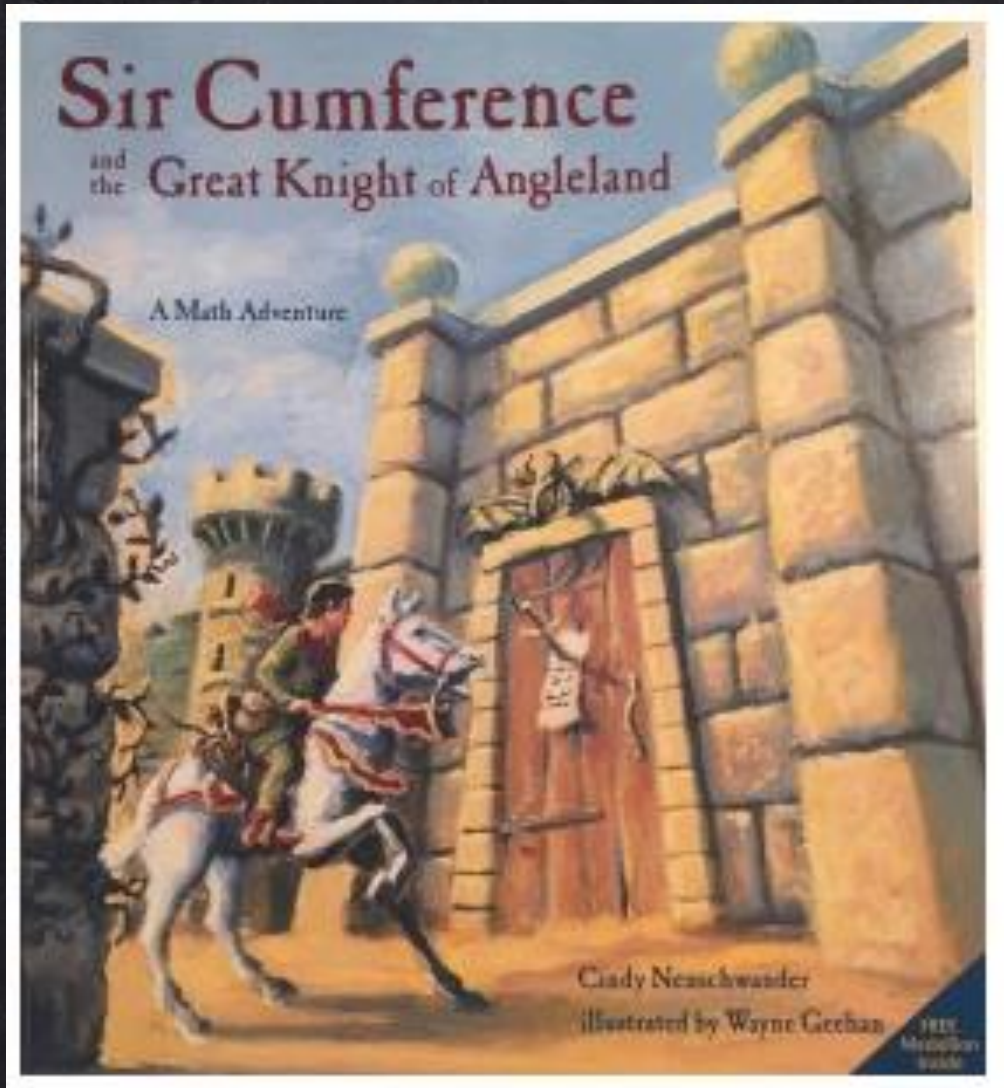


*Covers area of a circle. Math level
7th and up.*



Names the shapes and explains how many sides on each shape. Wonderful introduction to circles.

Math level 6th and up.



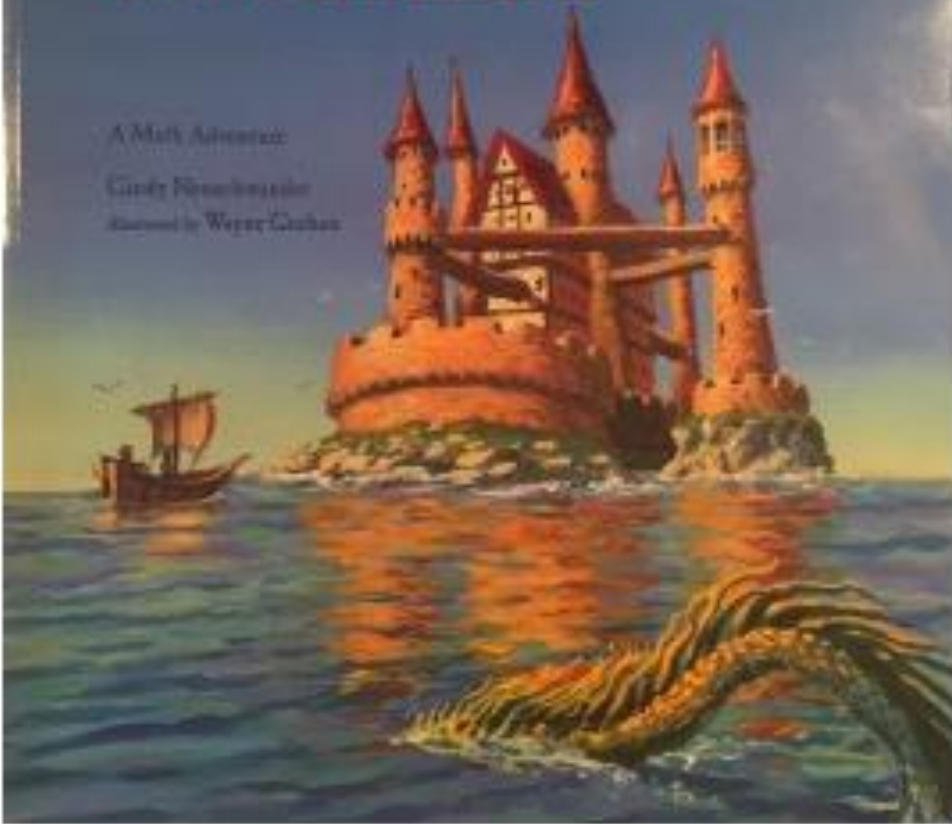
Covers angles,
obtuse, acute,
and right angles.
Math level 6th
and up.

Sir Cumference and the Isle of Immeter

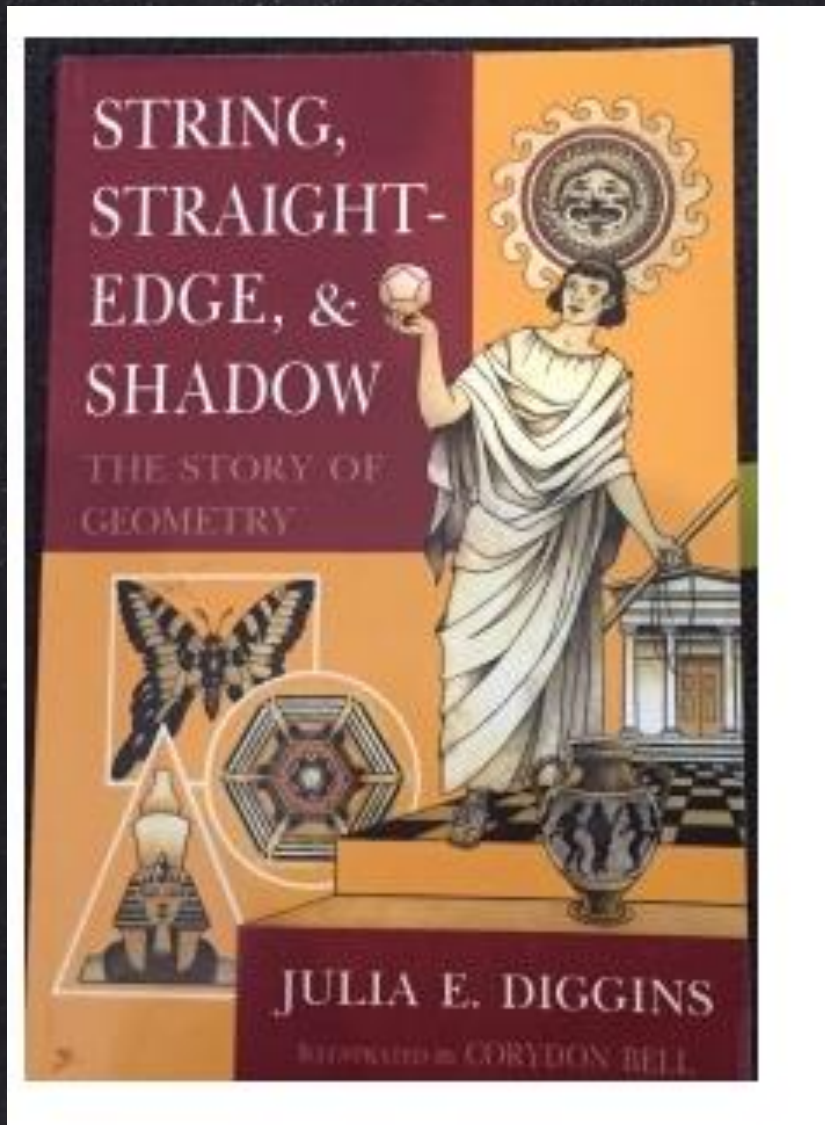
A Math Adventure

Cindy Newton-Watson

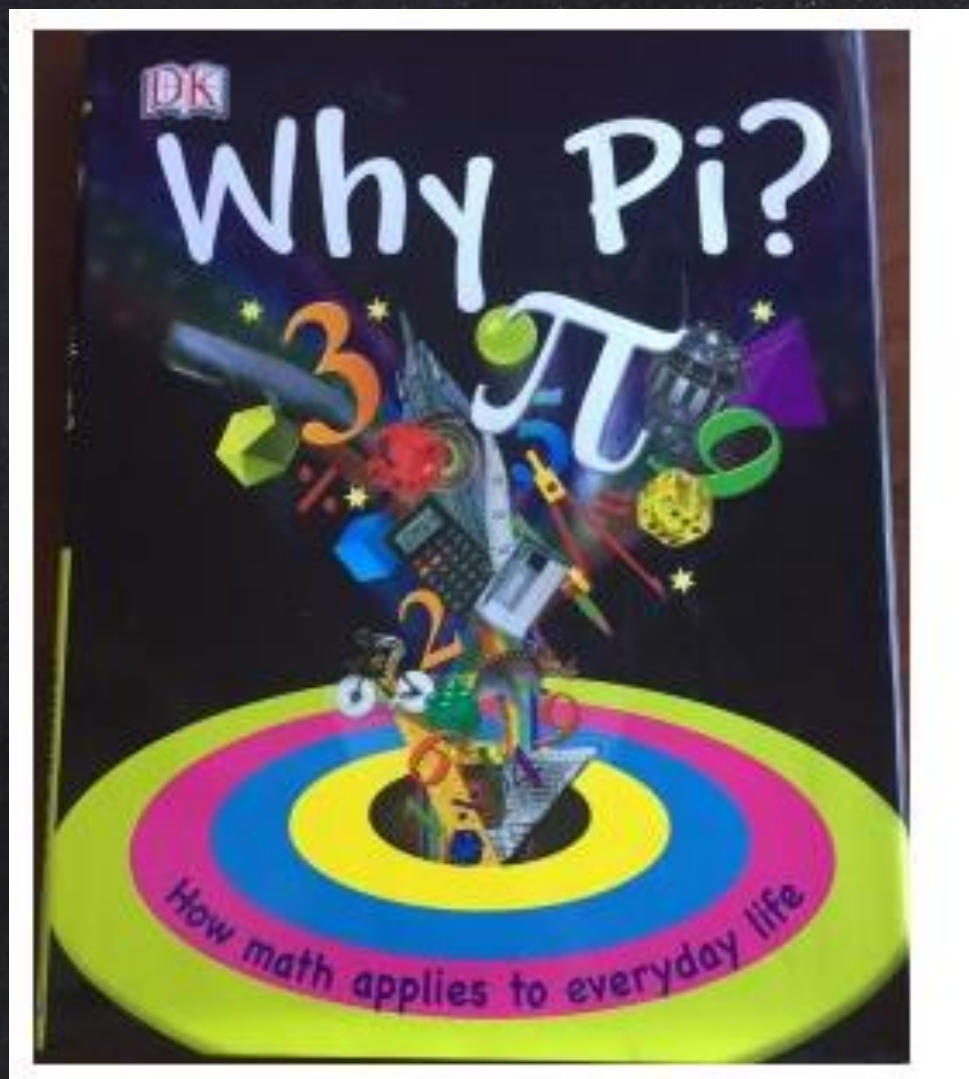
Illustrated by Wayne Graham



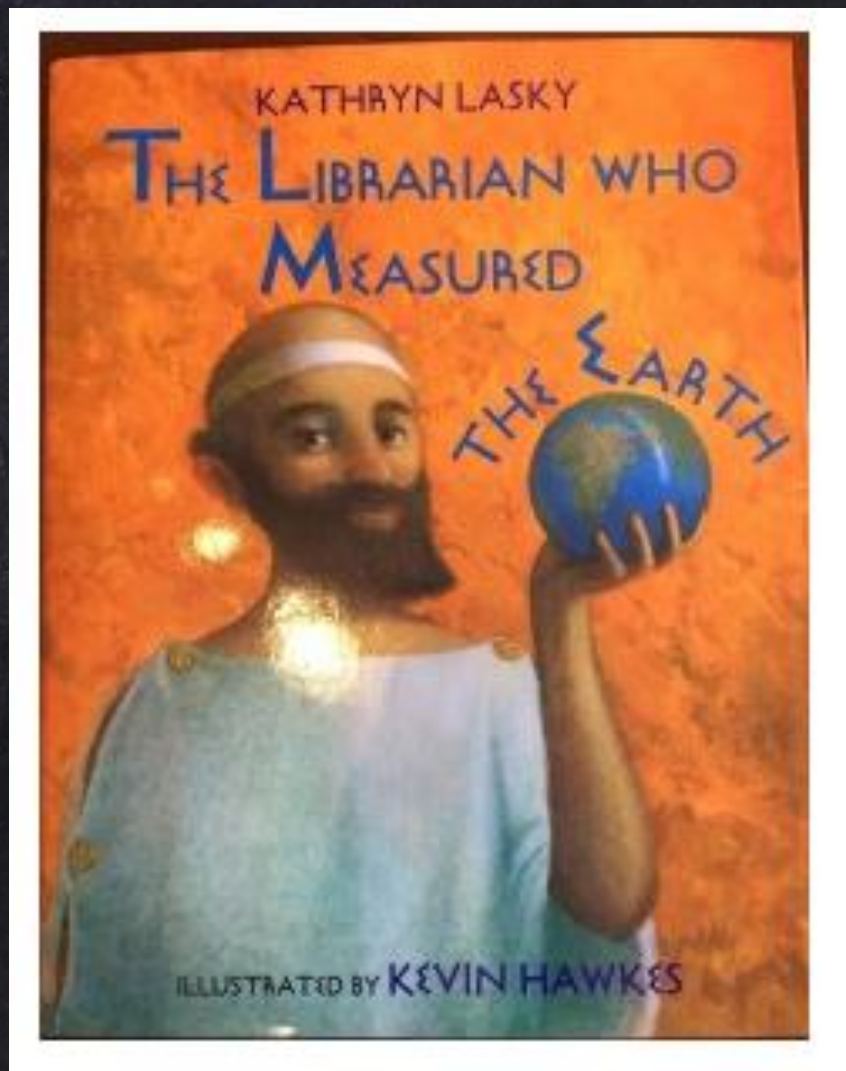
Covers shapes,
edges and faces.
Math level 7th
and up.



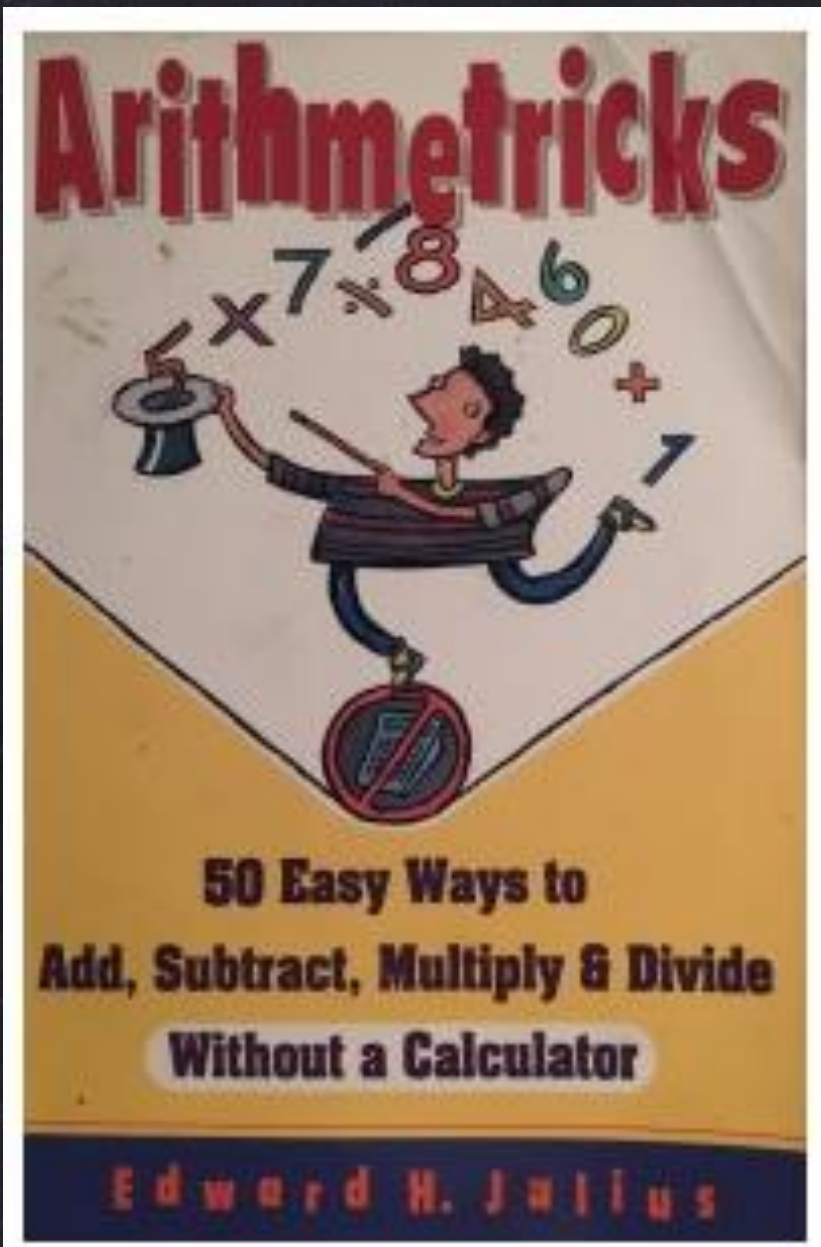
History of geometry from the dawn of time through ancient Greece. Learn about Thales, Pythagoras, and Eratosthenes. Math level 6th and up.



Covers math concepts related to geometry, measuring time, measurement, sound, pressure, light, electricity, and temperature. Introduces mathematicians where relevant. Math level 6th and up.

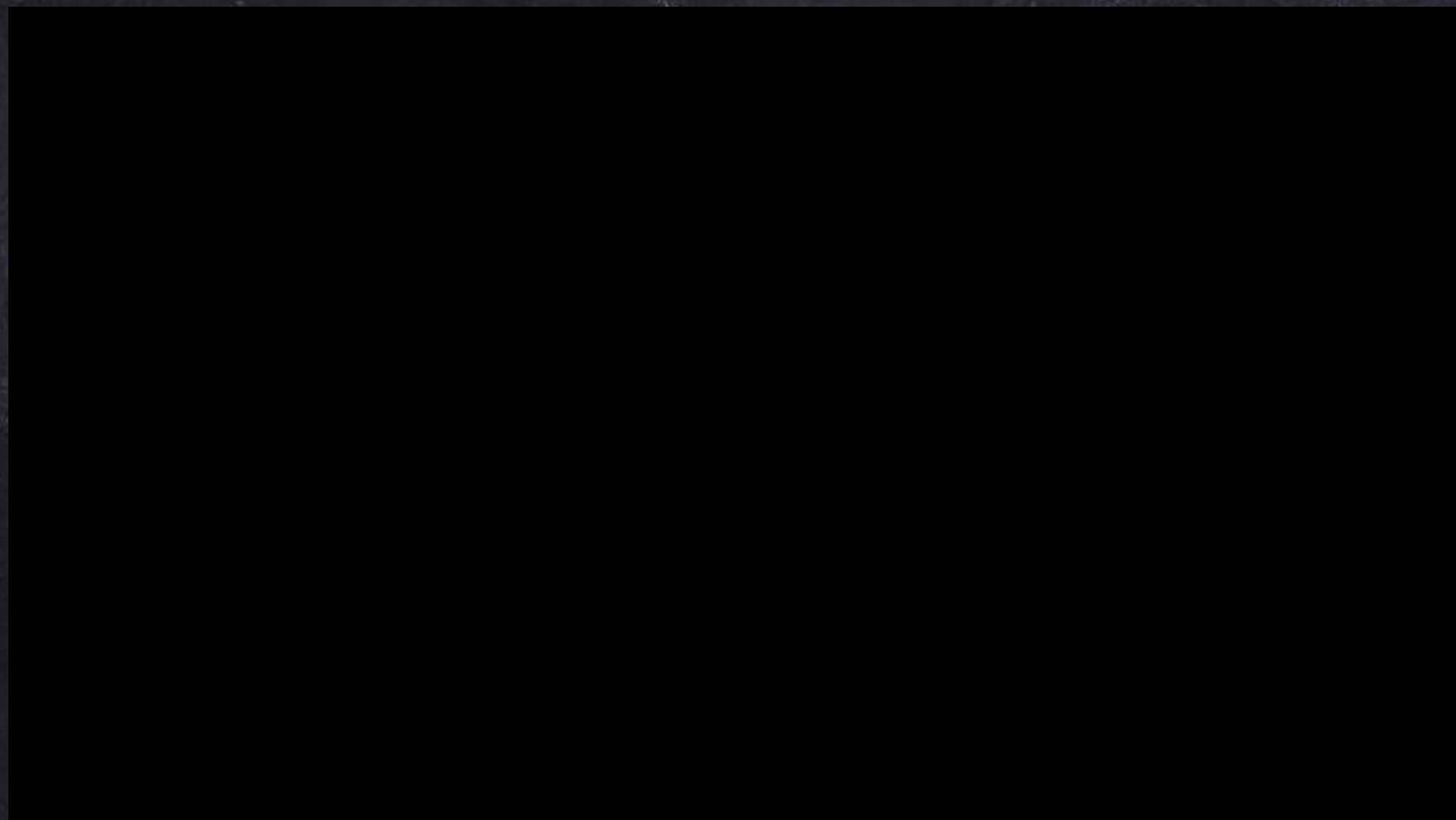


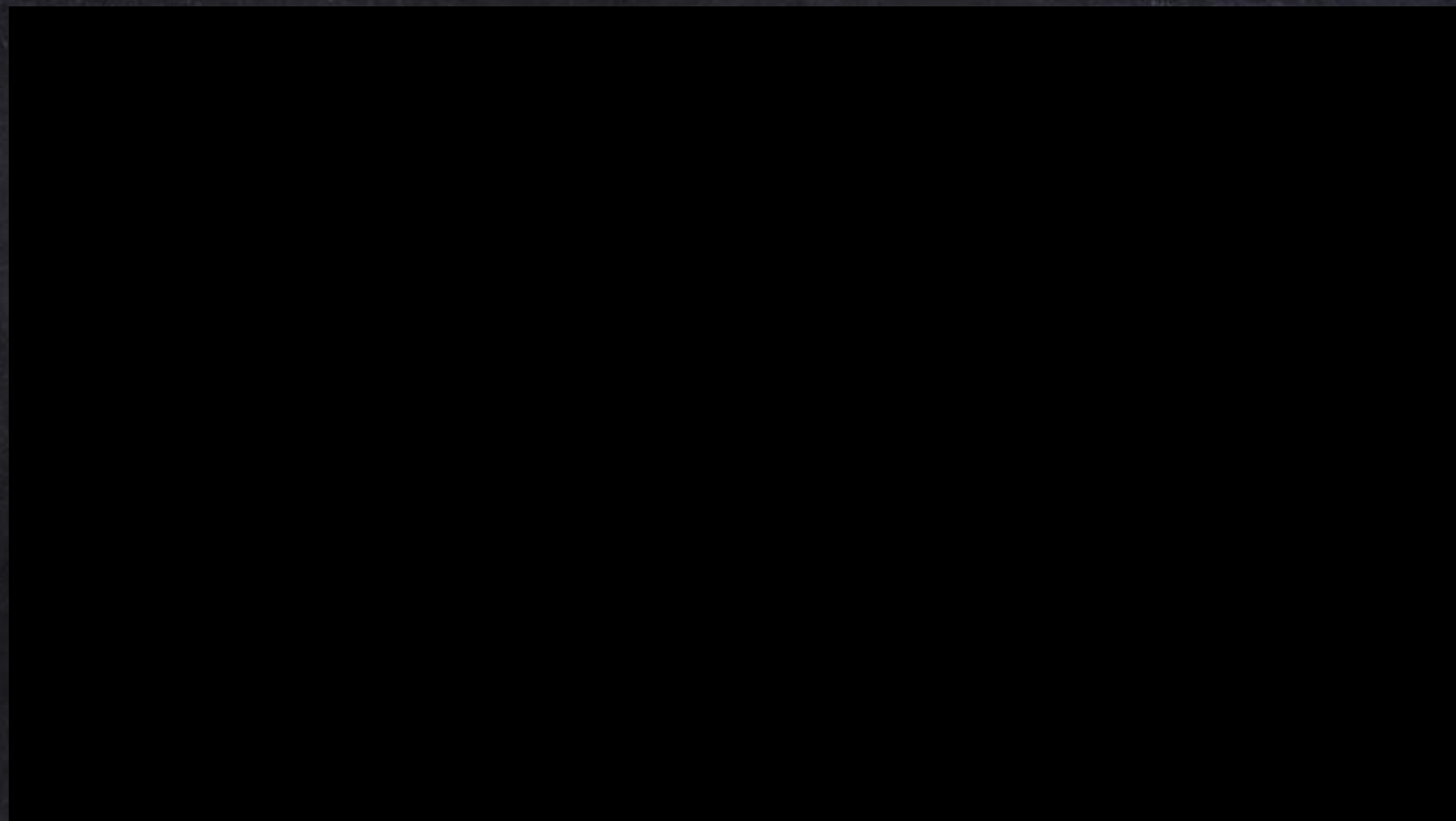
Story of Eratosthenes and how he measured the circumference of the earth. Covers the geometry used in measuring the earth. Math level 6th and up.



Each chapter introduces a problem, shows the long way to solve the problem, shows the short cut or 'arithmetrick', has an example on how to use the trick, and has several questions (with key in the back).

Math level 6th and up.





Your Turn

Your Turn!

- Select a Book
- Decide: Content, Standard, Objective
- Make Instructional Decisions:
 - Who Reads
 - Who Writes Problems
 - Grouping Arrangement

Share Your Plans

Questions

Follow Up Survey

Please complete to receive
power point and handout files

[https://goo.gl/forms/
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Thank you!

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