

# Grade 7

# Student Textbook Skills Program Edition SY 2022-2023

Sandy Bartle Finocchi and Amy Jones Lewis with Kelly Edenfield and Josh Fisher

# CARNEGIE LEARNING

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Student Edition

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# **Our Manifesto**

**WE BELIEVE** that quality math education is important for all students, to help them develop into creative problem solvers, critical thinkers, life-long learners, and more capable adults.

**WE BELIEVE** that math education is about more than memorizing equations or performing on tests—it's about delivering the deep conceptual learning that supports ongoing growth and future development.

**WE BELIEVE** all students learn math best when teachers believe in them, expect them to participate, and encourage them to own their learning.

**WE BELIEVE** teachers are fundamental to student success and need powerful, flexible resources and support to build dynamic cultures of collaborative learning.

**WE BELIEVE** our learning solutions and services can help accomplish this, and that by working together with educators and communities we serve, we guide the way to better math learning.

# LONG + LIVE + MATH

# Acknowledgments

# Middle School Math Solution Authors

- Sandy Bartle Finocchi, Chief Mathematics Officer
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- In Memory of David Dengler, Director of Curriculum Development (deceased), who made substantial contributions to conceptualizing Carnegie Learning's middle school software.

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Mathematics is so much more than memorizing rules. It is learning to reason, to make connections, and to make sense of the world. We believe in Learning by Doing<sup>(TM)</sup>—you need to actively engage with the content if you are to benefit from it. The lessons were designed to take you from your intuitive understanding of the world and build on your prior experiences to then learn new concepts. My hope is that these instructional materials help you build a deep understanding of math.

Sandy Bartle Finocchi, Chief Mathematics Officer

My hope is that as you work through this course, you feel capable—capable of exploring new ideas that build upon what you already know, capable of struggling through challenging problems, capable of thinking creatively about how to fix mistakes, and capable of thinking like a mathematician.

Amy Jones Lewis, Senior Director of Instructional Design

At Carnegie Learning, we have created an organization whose mission and culture is defined by your success. Our passion is creating products that make sense of the world of mathematics and ignite a passion in you. Our hope is that you will enjoy our resources as much as we enjoyed creating them.

Barry Malkin, CEO

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- 1 Lawn Boy Performance Task
- 2 Boot Bargains Performance Task
- 3 How Many Treats Performance Task
- 4 Backyard Shed Performance Task

# Glossary

# Lesson Structure

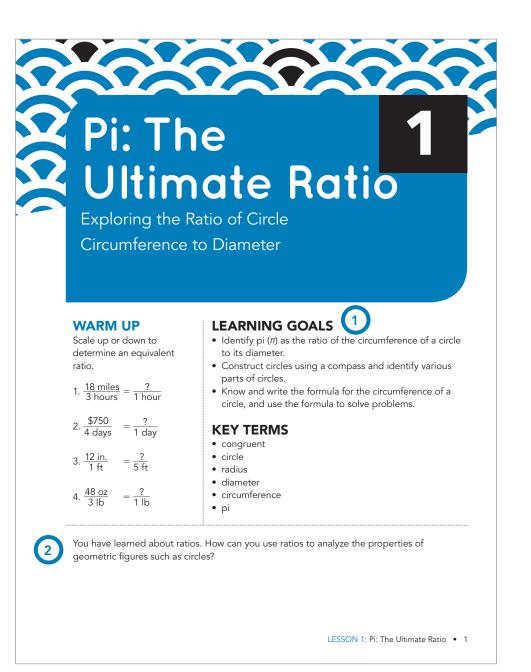
1. Learning Goals

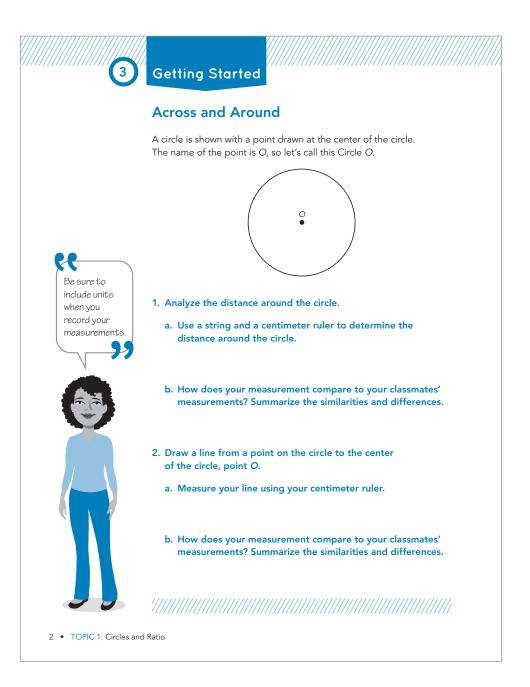
Learning goals are stated for each lesson to help you take ownership of the learning objectives.

### 2. Connection

Each lesson begins with a statement connecting what you have learned with a question to ponder.

Return to this question at the end of this lesson to gauge your understanding.





# 3. Getting Started

Each lesson begins with a Getting Started. When working on the Getting Started, use what you know about the world, what you have learned previously, or your intuition. The goal is just to get you thinking and ready for what's to come.

### 4. Activities

You are going to build a deep understanding of mathematics through a variety of activities in an environment where collaboration and conversations are important and expected.

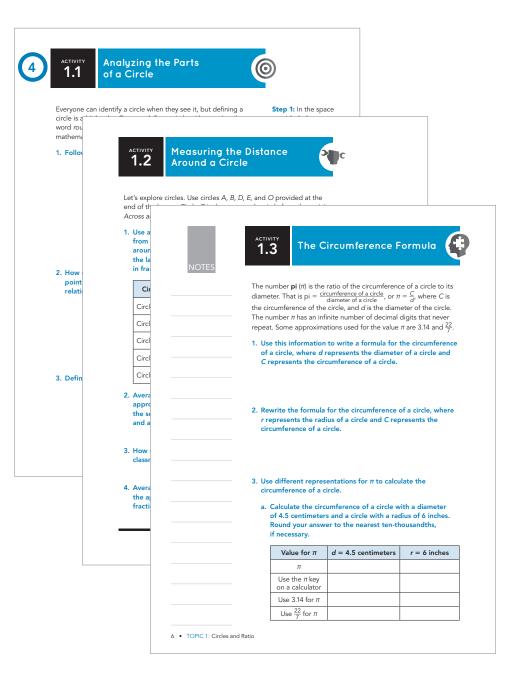
You will learn how to solve new problems, but you will also learn why those strategies work and how they are connected to other strategies you already know.

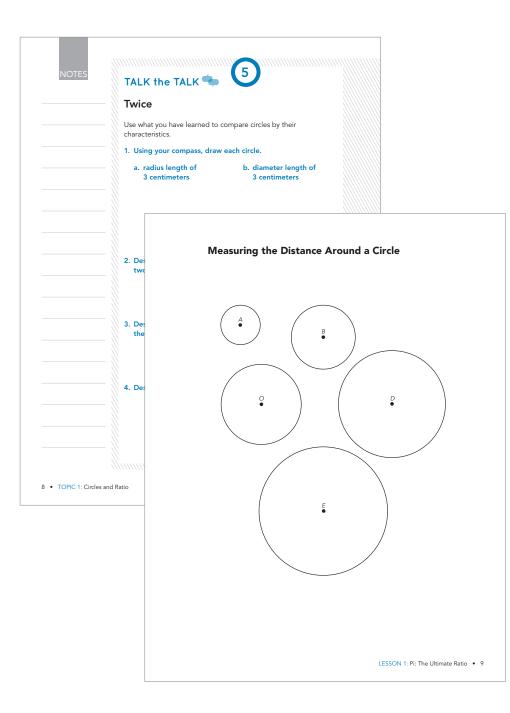
### Remember:

- It's not just about answer-getting. The process is important.
- Making mistakes is a critical part of learning, so take risks.
- There is often more than one way to solve a problem.

Activities may include real-world problems, sorting activities, Worked Examples, or analyzing sample student work.

Be prepared to share your solutions and methods with your classmates.





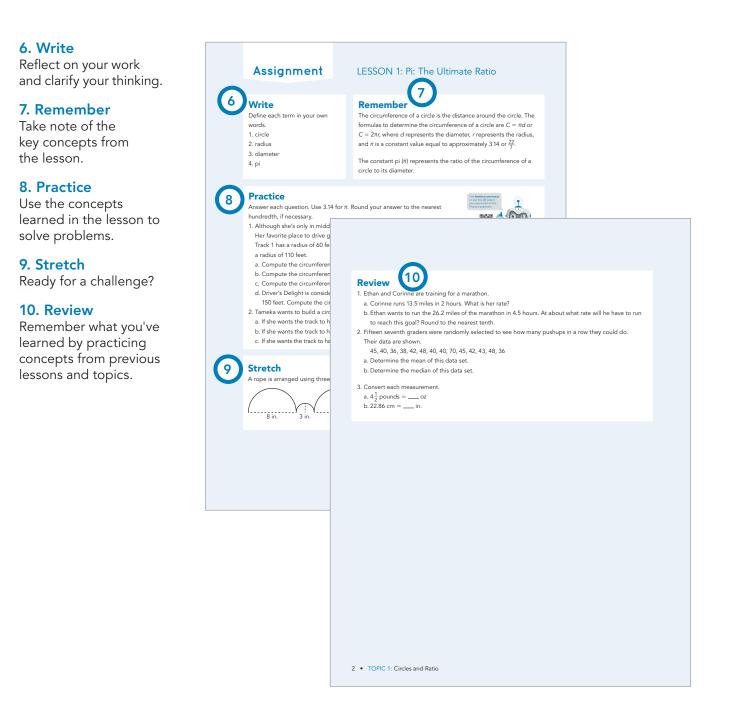
### 5. Talk the Talk

Talk the Talk gives you an opportunity to reflect on the main ideas of the lesson.

- Be honest with yourself.
- Ask questions to clarify anything you don't understand.
- Show what you know!

Don't forget to revisit the question posed on the lesson opening page to gauge your understanding.

# Assignment



# **Problem Types** You Will See

 $x = \frac{8-3}{2}$ 

# WORKED EXAMPLE

	$\frac{11}{3}x + 5 = \frac{17}{3}$	$\frac{1}{2}x + \frac{3}{4} = 2$
Step 1:	$3\left(\frac{11}{3}x+5\right) = 3\left(\frac{17}{3}\right)$	$4\left(\frac{1}{2}x+\frac{3}{4}\right)=4(2)$
Step 2:	11x + 15 = 17	2x + 3 = 8
Step 3:	$x = \frac{17 - 15}{11}$	$x = \frac{8-3}{2}$
	$=\frac{2}{11}$	$=\frac{5}{2}$

# Worked Example

# When you see a Worked Example:

- Take your time to read through it.
- Question your own understanding.
- Think about the connections between steps.

# Ask Yourself:

- What is the main idea?
- How would this work if I changed the numbers?
- Have I used these strategies before?

# Thumbs Up

# When you see a Thumbs Up icon:

- Take your time to read through the correct solution.
- Think about the connections between steps.

# Ask Yourself:

- Why is this method correct?
- Have I used this method before?

# Thumbs Down

# When you see a Thumbs Down icon:

- Take your time to read through the incorrect solution.
- Think about what error was made.

# Ask Yourself:

- Where is the error?
- Why is it an error?
- How can I correct it?

Analyze the solution strategy and solution for each inequality.

Ella  $-\frac{1}{2}x + \frac{3}{4} < 2$  $-4\left(-\frac{1}{2}x + \frac{3}{4} < 2\right)$ 2x - 3 > -82x > -5  $x > \frac{-5}{2}$ x > -2.5

Describe the strategy that Ella used correctly. Jeff -12x + 20 < 32 $\frac{-12x + 20}{-4} < \frac{32}{-4}$ 3x - 5 < -83× < -3 x < -1

Identify the error in Jeff's strategy and determine the correct solution.

# Who's Correct?

# When you see a Who's Correct icon:

- Take your time to read through the situation.
- Question the strategy or reason given.
- Determine if correct or not correct.

# Ask Yourself:

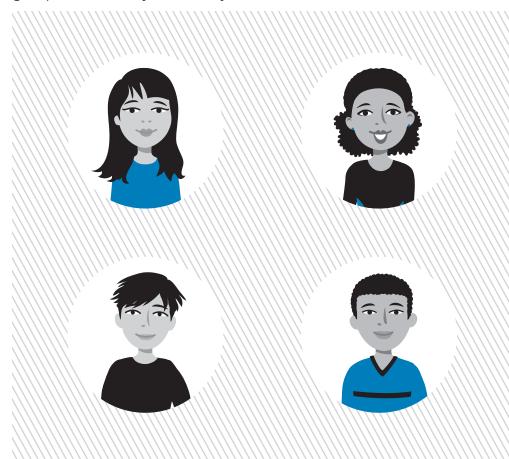
- Does the reasoning make sense?
- If the reasoning makes sense, what is the justification?
- If the reasoning does not make sense, what error was made?

Vanessa was given a math problem to determine how many different rectangles can be constructed with an area of 12 square inches.

Vanessa thinks that there are only two: one with a width of 2 inches and a length of 6 inches, and another with a width of 3 inches and a length of 4 inches. Is she correct? Explain your reasoning.

# The Crew

The Crew is here to help you on your journey. Sometimes they will remind you about things you already learned. Sometimes they will ask you questions to help you think about different strategies. Sometimes they will share fun facts. They are members of your group—someone you can rely on!



Teacher aides will guide you along your journey. They will help you make connections and remind you to think about the details.



# **Texas Mathematical Process Standards**

Effective communication and collaboration are essential skills of a successful learner. With practice, you can develop the habits of mind of a productive mathematical thinker. The "I can" expectations listed below align with the TEKS Mathematical Process Standards and encourage students to develop their mathematical learning and understanding.

# Apply mathematics to problems arising in everyday life, society, and the workplace.

I can:

- use the mathematics that I learn to solve real world problems.
- interpret mathematical results in the contexts of a variety of problem situations.
- Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying a solution, and evaluating the problem-solving process and reasonableness of the solution.

### l can:

- explain what a problem "means" in my own words.
- create a plan and change it if necessary.
- ask useful questions in an attempt to understand the problem.
- explain my reasoning and defend my solution.
- reflect on whether my results make sense.

Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate; and techniques including mental math, estimation, and number sense as appropriate, to solve problems.

### l can:

- use a variety of different tools that I have to solve problems.
- recognize when a tool that I have to solve problems might be helpful and when it has limitations.
- look for efficient methods to solve problems.
- estimate before I begin calculations to inform my reasoning.

# Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.

### I can:

- communicate and defend my own mathematical understanding using examples, models, or diagrams.
- use appropriate mathematical vocabulary in communicating mathematical ideas.
- make generalizations based on results.
- apply mathematical ideas to solve problems.
- interpret my results in terms of various problem situations.

# Create and use representations to organize, record, and communicate mathematical ideas.

### l can:

- consider the units of measure involved in a problem.
- label diagrams and figures appropriately to clarify the meaning of different representations.
- create an understandable representation of a problem situation.

# Analyze mathematical relationships to connect and communicate mathematical ideas.

### I can:

- identify important relationships in a problem situation.
- use what I know to solve new problems.
- analyze and organize information.
- look closely to identify patterns or structure.
- look for general methods and more efficient ways to solve problems.
- Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.

### I can:

- work carefully and check my work.
- distinguish correct reasoning from reasoning that is flawed.
- use appropriate mathematical vocabulary when I talk with my classmates, my teacher, and others.
- specify the appropriate units of measure when I explain my reasoning.
- calculate accurately and communicate precisely to others.

# Academic Glossary

There are important terms you will encounter throughout this book. It is important that you have an understanding of these words as you get started on your journey through the mathematical concepts. Knowing what is meant by these terms and using these terms will help you think, reason, and communicate your ideas.

# ANALYZE

# Definition

To study or look closely for patterns. Analyzing can involve examining or breaking a concept down into smaller parts to gain a better understanding of it.

# Ask Yourself

- Do I see any patterns?
- Have I seen something like this before?
- What happens if the shape, representation, or numbers change?

# Visit the Students & Caregivers Portal on the Texas Support Center at **www.**

CarnegieLearning.com/ texas-help to access the

Mathematics Glossary

for this course anytime, anywhere.



# **Related Phrases**

- Examine
- Evaluate
- Determine
- Observe
- Consider
- Investigate
- What do you notice?
- What do you think?
- Sort and match

# EXPLAIN YOUR REASONING

# Definition

To give details or describe how to determine an answer or solution. Explaining your reasoning helps justify conclusions.

# Ask Yourself

- How should I organize my thoughts?
- Is my explanation logical?
- Does my reasoning make sense?
- How can I justify my answer to others?

### **Related Phrases**

- Show your work
- Explain your calculation
- Justify
- Why or why not?

# **Related Phrases**

- Show
- Sketch
- Draw
- Create
- Plot
- Graph
- Write an equation
- Complete the table

# REPRESENT

# Definition

To display information in various ways. Representing mathematics can be done using words, tables, graphs, or symbols.

# Ask Yourself

- How should I organize my thoughts?
- How do I use this model to show a concept or idea?
- What does this representation tell me?
- Is my representation accurate?

# **Related Phrases**

- Predict
- Approximate
- Expect
- About how much?

# ESTIMATE

# Definition

To make an educated guess based on the analysis of given data. Estimating first helps inform reasoning.

# Ask Yourself

- Does my reasoning make sense?
- Is my solution close to my estimation?

# **Related Phrases**

- Demonstrate
- Label
- Display
- Compare
- Determine
- Define
- What are the advantages?
- What are the disadvantages?
- What is similar?
- What is different?

# DESCRIBE

# Definition

To represent or give an account of in words. Describing communicates mathematical ideas to others.

# Ask Yourself

- How should I organize my thoughts?
- Is my explanation logical?
- Did I consider the context of the situation?
- Does my reasoning make sense?

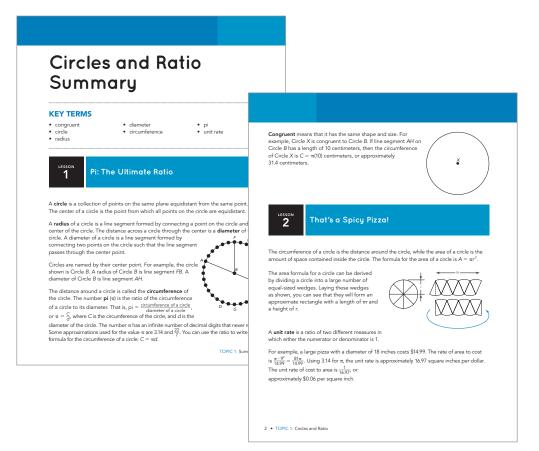
# Student Lesson Overview Videos

Each lesson has a corresponding lesson overview video(s) for you to use and reference as you are learning. The videos provide an overview of key concepts, strategies, and/or worked examples from the lessons.



# **Topic Summary**

A Topic Summary is provided at the end of each topic. The Topic Summary lists all key terms of the topic and provides a summary of each lesson. Each lesson summary defines key terms and reviews key concepts, strategies, and/or worked examples.



# **Mathematics Glossary**

A course-specific mathematics glossary is available to utilize and reference while you are learning. Use the glossary to locate definitions and examples of math key terms.

# Glossary

### 401(k) plan

A 401(k) plan is a retirement investment account set up by an employer. A portion of an employee's pay is invested into the account with the employer often matching a certain amount of it.

### 403(b) plan

A 403(b) plan is a retirement plan generally for public school employees or other tax exempt groups.

### adjacent angles

Adjacent angles are two angles that share a common vertex and share a common side.

Examples

Angles 1 and 2 are adjacent angles. Angles 3 and 4 are NOT adjacent angles.

### algebraic expression

An algebraic expression is a mathematical phrase that has at least one variable, and it can contain numbers and operation symbols.

### Examples

а	2a + b	ху	$\frac{4}{D}$	z

### appreciation

Appreciation is an increase in price or value.

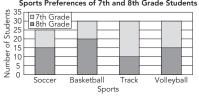
### asset

Assets include the value of all accounts. investments, and things that you are own. They are positive and add to your net worth.

### bar graph

Bar graphs display data using horizontal or vertical bars so that the height or length of the bars indicates its value for a specific category

### Sports Preferences of 7th and 8th Grade Students

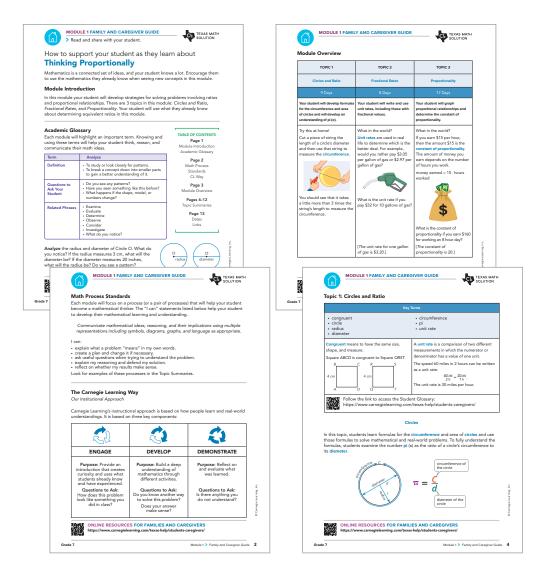


GLOSSARY • G-1

# Module Family and Caregiver Guides

Each module guide will provide a different highlight of the academic glossary, description and examples of TEKS Mathematical Process Standards, and an overview of a different component of our instructional approach known as The Carnegie Learning Way. Also included is a module overview of content, specific key terms, visual representations, and strategies you are learning in each topic of the module.

The purpose of the Family and Caregiver Guides is to bridge student learning in the classroom to student learning at home. Our goal is to empower you and your family to understand the concepts and skills learned in the classroom so that you can review, discuss, and solidify the understanding of these key concepts together. Videos will be available on the Students & Caregivers Portal on the Texas Support Center to provide added support.



# **Topic Family Guides**

Each topic contains a Family Guide that provides an overview of the math of the topic and answers the questions, "Where have we been?" and "Where are we going?" Additional components of the Family Guide are, as follows: an example of a math model or strategy taught in the topic, definitions of a few key terms, busting of a math myth, and questions families and caregivers can ask you to support your learning.

We recognize that learning outside of the classroom is crucial to student success at school. While we don't expect families and caregivers to be math teachers, the Family Guides are designed to assist families and caregivers as they talk to you about what you are learning. Our hope is that both you and your family will read and benefit from these guides.

Grade 7

Where have we been?

the perimeters of shapes formed with

straight lines. In grade 6, students w

extensively with ratios and ratio re

investigate a constant ratio, pi.

To begin this topic students draw experiences as they use physical to

Where are we going?

This early review of and experience

ratios prepares students for future le

and proportions to more abstract an

symbolic work with solving proportio representing proportional relationsh In future grades, students will use th

circumference and area formulas of a

to calculate surface areas and volum cylinders and composite three-dime

TOPIC 1: Family G

shapes that include circles.

Throughout elementary school, students used and labeled circles and determined

### Carnegie Learning Family Guide Module 1: Thinking Proportionally

Modeling the Area of a Circle Using Wedges

TOPIC 1: CIRCLES AND RATIO In this topic, students learn formulas for the circumference and area of circles and use those formulas to solve mathematical and real-world problems. To fully understand the formulas, students develop an understanding of the irrational number pi  $(\pi)$  as the ratio of a circle's circumference to its diameter. Throughout the topic, students practice applying the formulas for the circumference and area of a circle, often selecting the appropriate formula. Finally, students practice applying the formulas by using them to solve a variety of problems, including calculating the area of composite figures.

Divide a circle into a large number of equal-sized wedges. Laying these wedges as shown, you can see that they approximate a rectangle with a length of  $\pi r$  (which is half

the circumference) and a width of r. The more

wedges that are added, the closer the figure will be to an exact rectangle. So, the area of

the rectangle of wedges is  $l \times w = \pi r \times r = \pi r^2$ 

Thus, the circle has an area of  $\pi r^2$ .

# where they will move from concrete representations and reasoning about

Muth: "I don't have the math gene."

contribute to our ability to reason mathematically. Moreover, a recent study suggests that mathematical thinking arises from the ability to learn a language. Given the right input from the environment, children learn to speak without any formal instruction They can learn number sense and pattern recognition the same way To further nurture your child's mathematical growth, attend to the learning environment. You can

Let's be clear about something. There isn't **a** gene that controls the developmen of mathematical thinking. Instead, there are probably **hundreds** of genes that

think of it as providing a nutritious mathematical given distribution and a state of the second state of t world, offering the right kind of encouragement, being available to answer of ions, allowing your student to struggle with difficult concepts, and giving them space for plenty of practice #mathmythbusted

Keu Terms

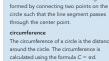
diameter

### Talkina Points

You can further support your student's learning by asking questions about the work they do in class or at home. Your student is learning to think flexibly about mathematical relationships involving multiplication, area, and number properties.

### Ouestions to Ask

- How does this problem look like something you did in class?
- Can you show me the strategy you used
- to solve this problem? Do you know another way to solve it? Does your answer make sense? How do
- you know? Is there anything you don't understand?
- How can you use today's lesson to help?



radius The radius of a circle is a line segme

formed by connecting a point on the circle and the center of the circle.

The diameter of a circle is a line segment

The number pi ( $\pi$ ) is the ratio of the circumference of a circle to its diamete

2 • TOPIC 1: Circles and Ratio

# **Students and Caregivers Portal**

Research has proven time and again that family engagement greatly improves a student's likelihood of success in school.

The Students & Caregivers Portal on the Texas Support Center provides:

- Getting to Know Carnegie Learning video content to provide an introduction to the instructional materials and research.
- Articles and quick tip videos offering strategies for how families and caregivers can support student learning.
- Access to instructional resources to support students and caregivers.

To access new content and resources, visit the Students and Caregivers Portal on the Texas Support Center at https:// www.CarnegieLearning.com/texas-help/students-caregivers/



