i-Ready Classroom Mathematics

Family Guide

Support and Inspire Your Student's Success in Mathematics

Teaching mathematics is a team effort!

As an essential member of your student's learning team, you have enormous power to help your student succeed in mathematics. To support you and provide insight into your student's mathematics learning, we've created this guide. In it you will find:

- Ideas for **supporting your student's mathematics learning**
- Insights into how *i-Ready Classroom Mathematics* **prepares your student for future success**
- Information on **key *i-Ready Classroom Mathematics* resources** and where to find them
- An opportunity to try some math problems from *i-Ready Classroom Mathematics* to explore how the program **gets students excited about mathematics and builds their deep understanding of it**

For more information about what's included in this guide, check out the Contents on the next page.

Partnering with your student's teacher is a powerful way to support your student. Reach out to find out how you can collaborate together on your student's mathematics learning.

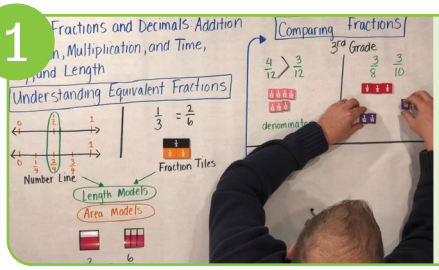
Contents

Click the page number links in the table of contents below to learn all about *i-Ready Classroom Mathematics* and how you can support and inspire your student's success in math!

Five Ways to Get Started

While there are several ways to have a positive impact on your student's success in mathematics, here are five key strategies to get you started.

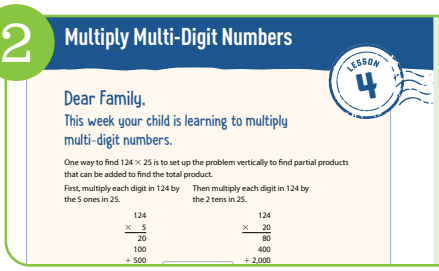
1



Unit Flow & Progression Videos

Watch the Unit Flow & Progression Video* when your student begins a new unit.

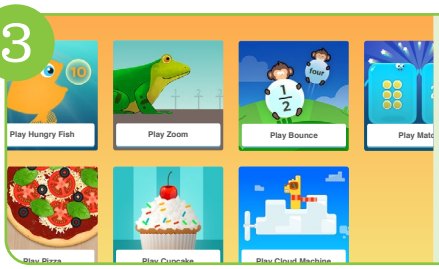
2



Family Letters

Read the Family Letter* and do the activities with your student at the start of each lesson.

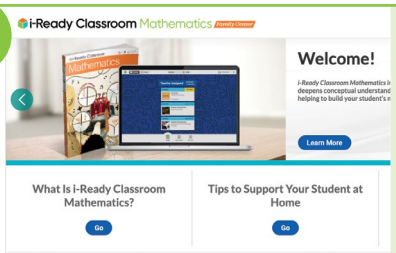
3



Learning Games

Give your student time and space to play the Learning Games.*

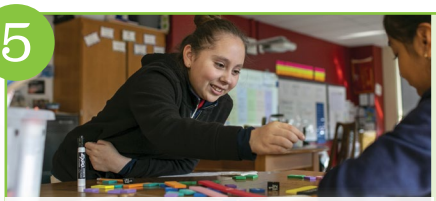
4



Family Center

Visit the Family Center* to find additional resources for exploring and learning about math with your student.

5



"It's not that I'm so smart, it's just that I stay with problems longer."
—Albert Einstein

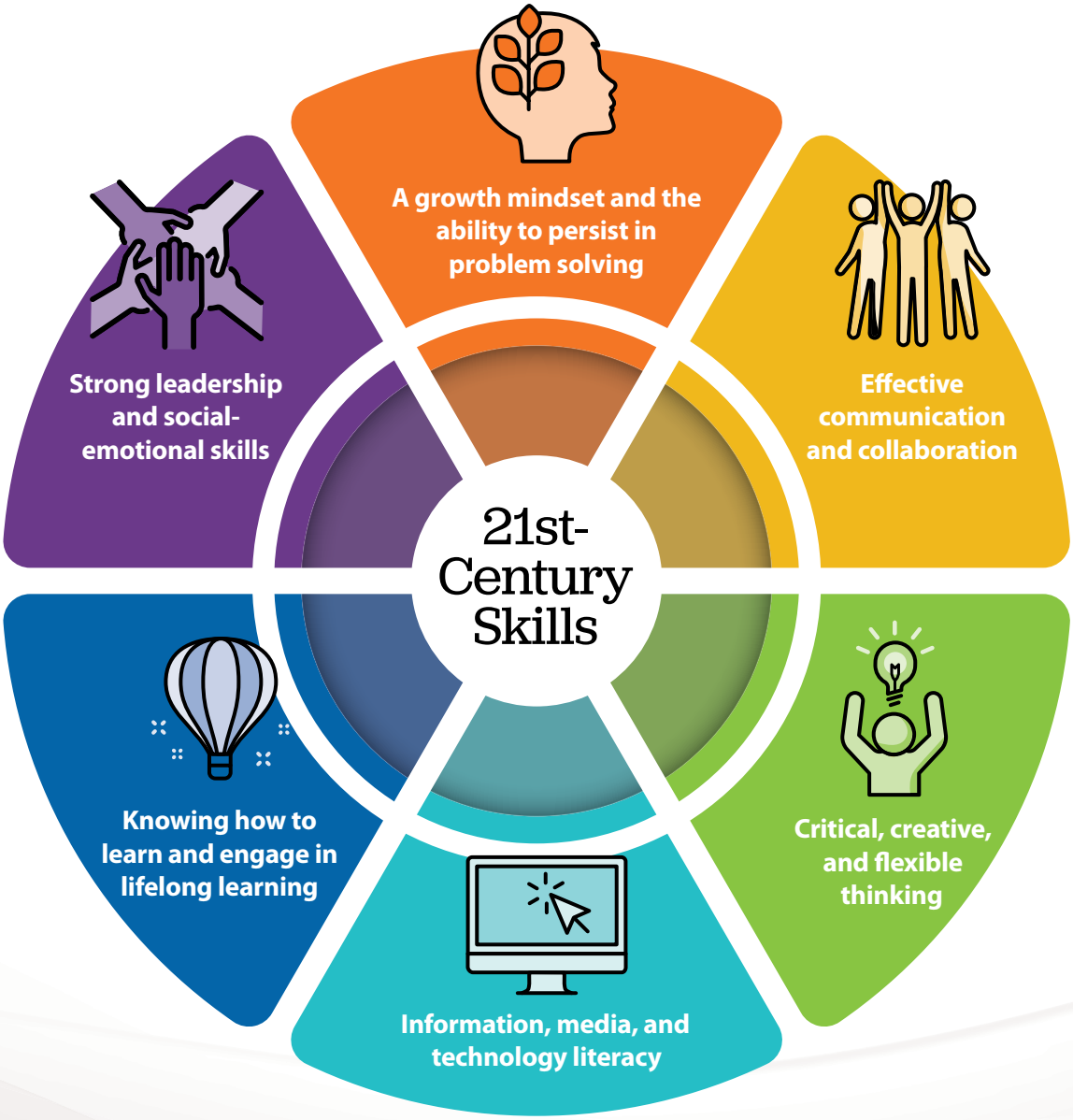
Nurture a Growth Mindset

- Praise effort rather than innate qualities (e.g., being smart).
- See mistakes as opportunities for learning.
- Be open-minded, and consider other approaches and perspectives for solving problems.
- Seek out feedback from others.
- Remain curious about the world and its many obstacles and opportunities.
- Stick with challenging pursuits (e.g., learning math, playing a musical instrument, speaking a new language).

*Find out more about how to access these tools on page 9 of this guide.

How Does *i-Ready Classroom Mathematics* Prepare My Student for Future Success?

To prepare students for college and career success, math instruction has shifted from primarily memorizing steps for getting answers to developing **deep, conceptual understanding of how the math works**. But success in the 21st century involves more than just academic achievement. It also requires essential skills that extend beyond math. That's why *i-Ready Classroom Mathematics* incorporates 21st-century skills into your student's daily math instruction.



Try–Discuss–Connect Routine

One important way *i-Ready Classroom Mathematics* weaves 21st-century skills into daily instruction is by having **students take ownership of their learning** through the Try–Discuss–Connect routine. To understand how this six-step routine helps your student develop important skills, such as reasoning and critical thinking, let's take a closer look at each of the steps.

Try It

1. **Make sense** of the problem.
2. **Solve and support** your thinking.

Discuss It

3. **Share your thinking** with a partner and the whole class.
4. **Compare** class strategies.

Connect It

5. **Make connections** between strategies.
6. **Apply your thinking** to new problems.

Try It

	What Happens in This Step of the Routine?	How Does This Step Help Your Student?
1. Make Sense of the Problem	Together, the class reads a math problem, identifies the **most important information**, and determines **what the problem is asking**.	The first steps to solving any math problem are **understanding what is being asked and then identifying and organizing the key information**. This helps students solve problems with mathematical accuracy.
2. Solve and Support Your Thinking	Students take inventory of what they already know and use it to **think independently about the problem**. They are encouraged to **represent the problem in different ways** and then use this information as they strive to solve the problem.	This **individual think time** prepares students for discussions about how to solve problems. Representing a math problem in different ways will help your student see the relationships between the quantities and numbers in the problem. This step will also **equip your student with approaches for tackling problems they don't immediately know how to solve.**

Discuss It

	What Happens in This Step of the Routine?	How Does This Step Help Your Student?
3. Share Your Thinking	Student partners share and evaluate one another's math ideas and problem-solving strategies. They **justify and support their thinking** and **tactfully critique the ideas of others**.	Describing one's math thinking and hearing the thinking of others **engages different areas of the brain**, strengthening math memory and comprehension. Over time, this step will help your student develop confidence, **improve their capacity to communicate complex ideas**, and strengthen their ability to use reason and logic.
4. Compare Strategies	During whole class discussion, students **compare strategies with those of their classmates** and the strategies in their book. They **clarify and expand upon the ideas** of their peers.	Explaining the ideas of others reinforces what students are learning, and when they **experience multiple strategies for solving problems, their ability to solve new types of problems is strengthened**. Students learn to work well as a team and get better at giving and receiving feedback. Since all ideas are valued, **your student's confidence and empathy will grow**.

Math Shouldn't Be Quiet!

In the Discuss It steps of the Try–Discuss–Connect routine, students engage in mathematical discourse, which means they talk about math with partners and the whole class. Verbalizing their own and each other's math ideas strengthens their ability to process new ideas, builds their math confidence, and helps them better retain what they learn.

Click below to see math discourse in action!

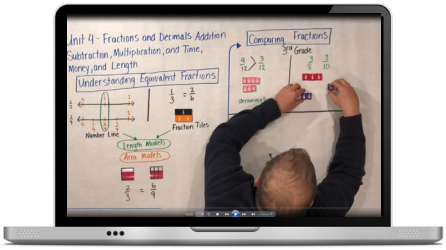
Grade K Grade 4 Grade 6

Connect It

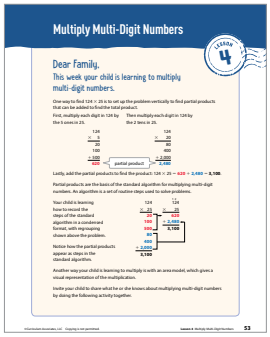
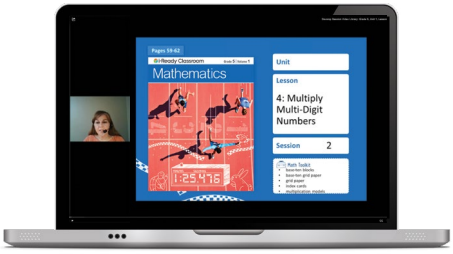
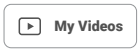
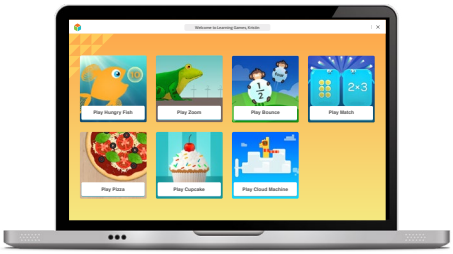
	What Happens in This Step of the Routine?	How Does This Step Help Your Student?
5. Make Connections and Reflect on What Was Learned	Students **think critically** about strategies and why they work. They **reflect and expand upon what they learned** so they can apply it in other situations.	**Students make connections** so they understand how the math they are currently learning relates to other types of mathematical contexts and situations. **Reflection provides space for learning from mistakes and improving one's ability to learn.** Knowing how to learn is one of the most important skills your student will use in life.
6. Apply Your Thinking to a New Problem	In the final step of the routine, students work independently as they **apply what they've learned to new, more challenging problems and questions** in their Student Worktext.	The problems in this step will **stretch your student's thinking**, help reinforce their learning, and enable them to extend their knowledge to new situations. Students who can **apply their knowledge to new situations** become better problem solvers and creative thinkers.

What Resources Are Available to Support My Student at Home?

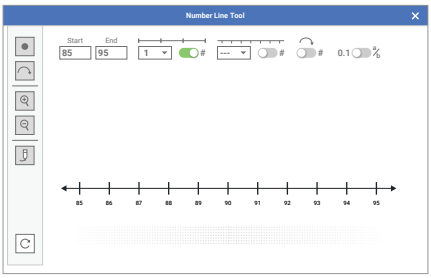
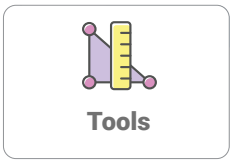
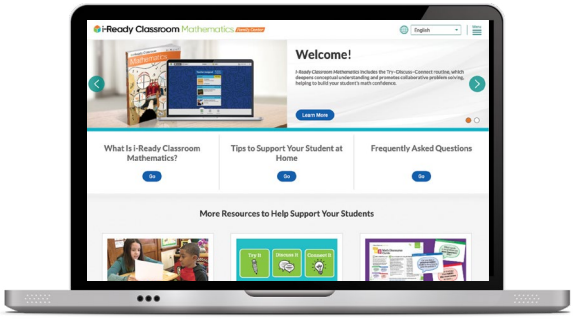
Below are some of the many high-quality resources in *i-Ready Classroom Mathematics* available to support you. To access them, **log in to the Student Digital Experience** and then follow the instructions in the boxes below.

Resource	Access through the Student Digital Experience
Student Worktext  Get to know the Student Worktext (two print volumes) where you'll find instruction, Family Letters, Practice pages, and a math glossary. Access the digital version anytime through the Student Digital Experience.	1. Click the **Bookshelf icon** at the bottom. 2. Click on the *i-Ready Classroom Mathematics* **Worktext image**.
Unit Flow & Progression Video  Watch these videos for a visual overview of how your student's learning will progress through the lessons in the unit.	1. Click the **Bookshelf icon** at the bottom. 2. Click on the *i-Ready Classroom Mathematics* **Worktext image**. 3. Click on **Family Resources** in the upper-right corner. 4. Click on **Watch Video** to the right of the unit your student is starting.

Find Helpful Resources to Support Your Student at Home

Resource	Access through the Student Digital Experience
Family Letters  Find guidance on the math your student is learning. Includes Hands-On Activities for Grades K–5. (Several languages available.)	 1. Click the **Bookshelf icon** at the bottom.  2. Click on the *i-Ready Classroom Mathematics* **Worktext image**.  3. Click on **Family Resources** in the upper-right corner.  4. Choose your **language**.  5. **Click on the PDF icon** next to your student's current lesson.
Develop Session Videos  Access instruction if your student misses class, needs additional support at home, or is preparing for a test.	 1. Click the **Bookshelf icon** at the bottom.  2. Click on the *i-Ready Classroom Mathematics* **Worktext image**.  3. Click on **Family Resources** in the upper-right corner.  4. Click on **My Videos** at the top center.  5. Choose **Watch Video** next to the lesson and session your student is working on.
Learning Games  Discover fun and engaging ways for your student to practice math that will promote motivation, persistence, and an "I can do this" attitude. Learn more.	Click the **Learning Games icon** at the bottom of the dashboard. 

Find Helpful Resources to Support Your Student at Home

Resource	Access through the Student Digital Experience
Digital Math Tools  Create visual models and explore math problems with your student.	Click the **Tools icon** at the bottom of the dashboard. 
***i-Ready Classroom Mathematics* Family Center**  Navigate to the *i-Ready Classroom Mathematics* Family Center to find more resources, tips, and guidance.	Access the *i-Ready Classroom Mathematics* **Family Center through the Student Digital Experience or by clicking here.**

Adding Three-Digit Numbers

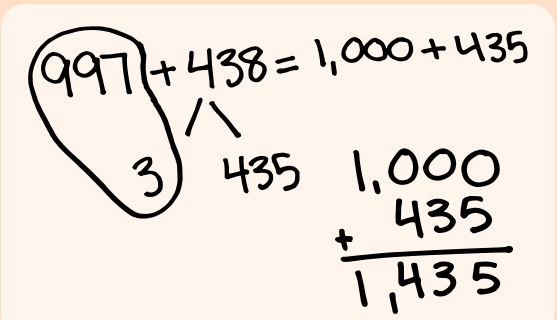
To understand more about your student's mathematics instruction with *i-Ready Classroom Mathematics*, here's an opportunity to experience some math from the program.

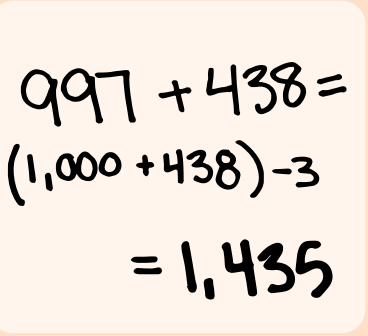
Consider taking a few moments to try the following tasks.

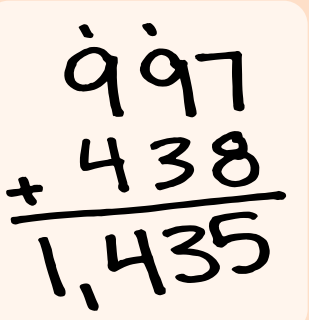
1 **Please take a moment to solve this problem in the space below:**

Add: 997 + 438 = ?

2 **Compare your way of solving the problem to these two approaches:**







3 **Reflect on the following:**

- Think through the steps you went through to solve this problem.
- What skills and knowledge did you need to complete the task?
- How is your way of solving the problem the same or different than the ones above?

Key Takeaway

With *i-Ready Classroom Mathematics*, **students learn to think flexibly about numbers** and to recognize that larger numbers are made up of smaller ones (e.g., 438 = 3 + 435). Thinking flexibly about numbers **strengthens your student's ability to do math mentally**.

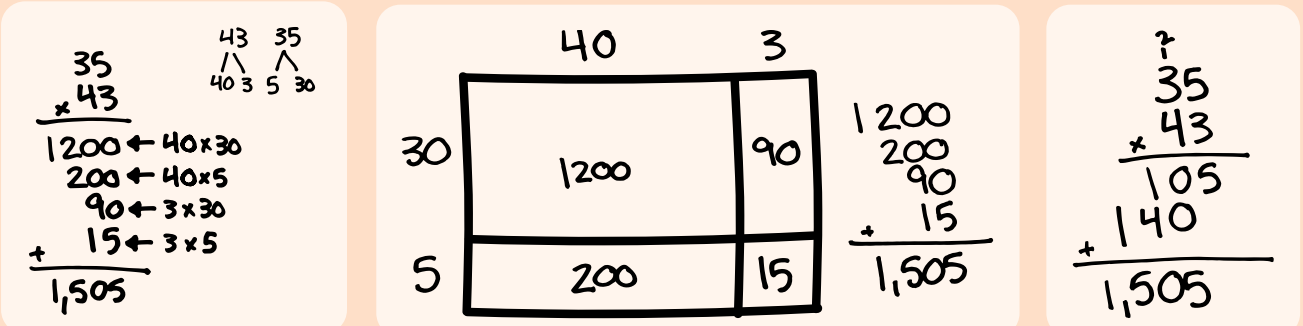
Multiplying Two-Digit Numbers

Let's try another problem.

1 **Please take a moment to solve this problem in the space below:**

Multiply: 35 x 43 = ?

2 **Compare your way of solving the problem to these approaches:**



3 **Reflect on the following:**

- What steps did you follow?
- What skills and knowledge did you need to solve the problem?
- What similarities and differences do you see between your strategy and the ones provided?

Key Takeaway

In the first two strategies above, **students develop deeper understanding of place value**. By breaking numbers into their place-value parts, students can readily manipulate them to get answers efficiently and accurately.

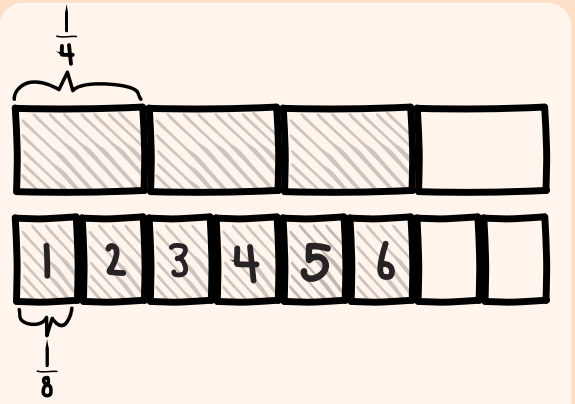
Dividing Fractions

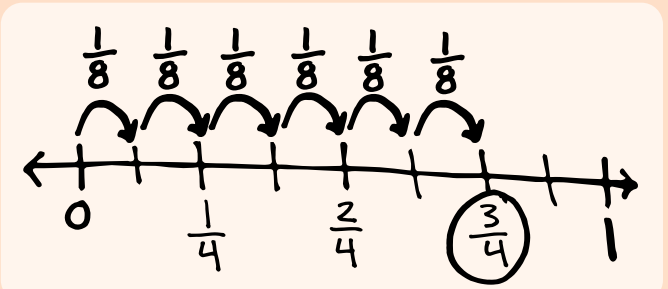
Let's try one more!

1 **Please use the space below to solve this problem:**

Divide: 3/4 ÷ 1/8 = ?

2 **Compare your way of solving the problem to these solutions:**





$\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{8}{1} = \frac{24}{4} = 6$

3 **Reflect on the following:**

- What steps and skills did you use to solve the problem?
- What similarities and differences do you see among the strategies?

Key Takeaway

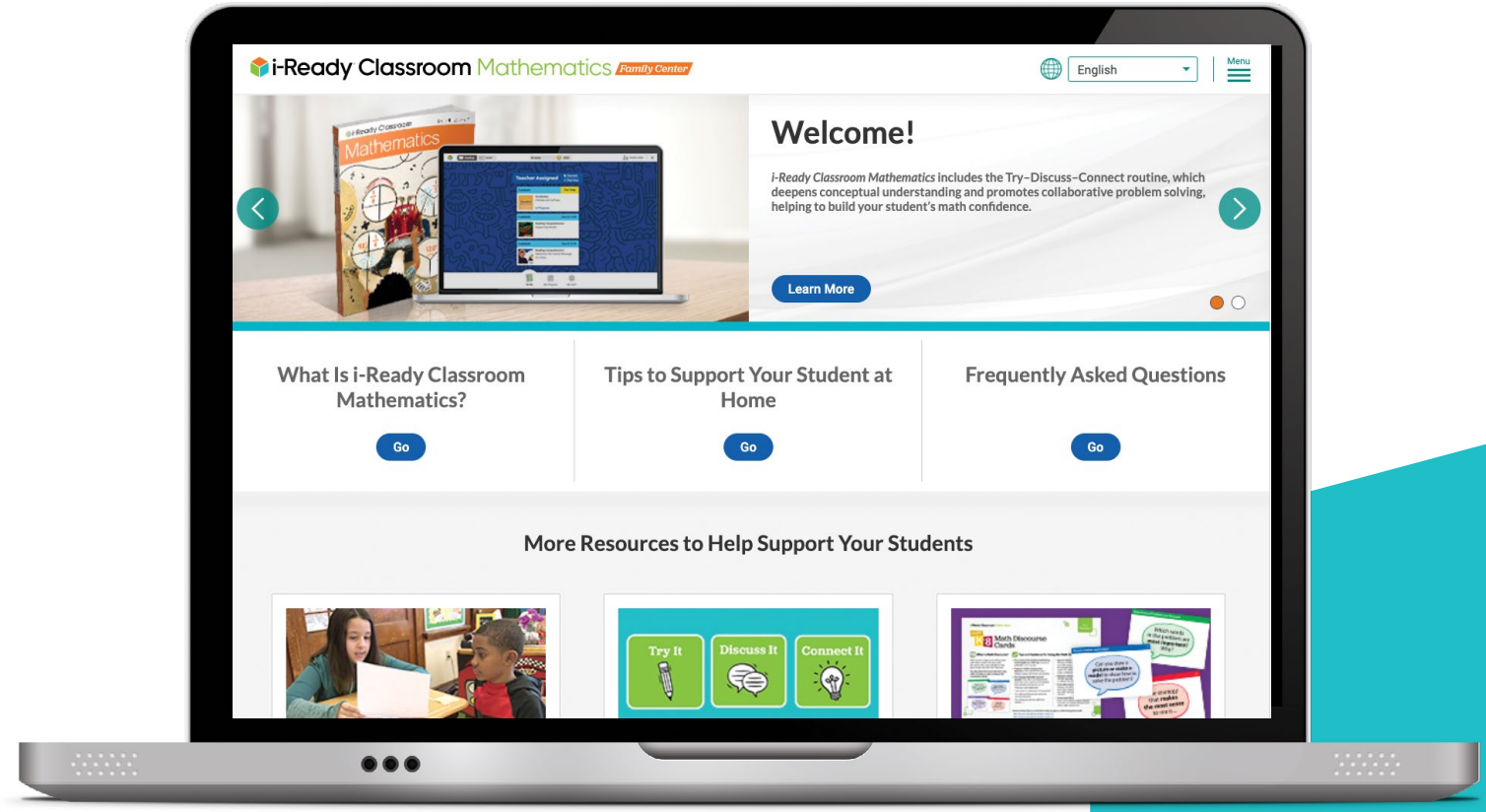
In the bottom right strategy, students are taught how to get the answer but not why the process works. In the other two representations of the problem, students can SEE that 1/8 can be divided into 3/4 six times.

Before students are taught the procedure for solving a problem, such as dividing a fraction by a fraction, it is important that they **conceptualize the mathematics using models, so they understand WHY the method works**.

Learn More!

We hope this guide has been helpful and inspires you to learn along with your student.

Navigate to the *i-Ready Classroom Mathematics* Family Center to learn more and find additional resources to support your student's mathematics learning journey.



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