MATHia X
Getting Started for Students

Contents

LAUNCH THE SOFTWARE AS A STUDENT

Username: _____

Password: _____

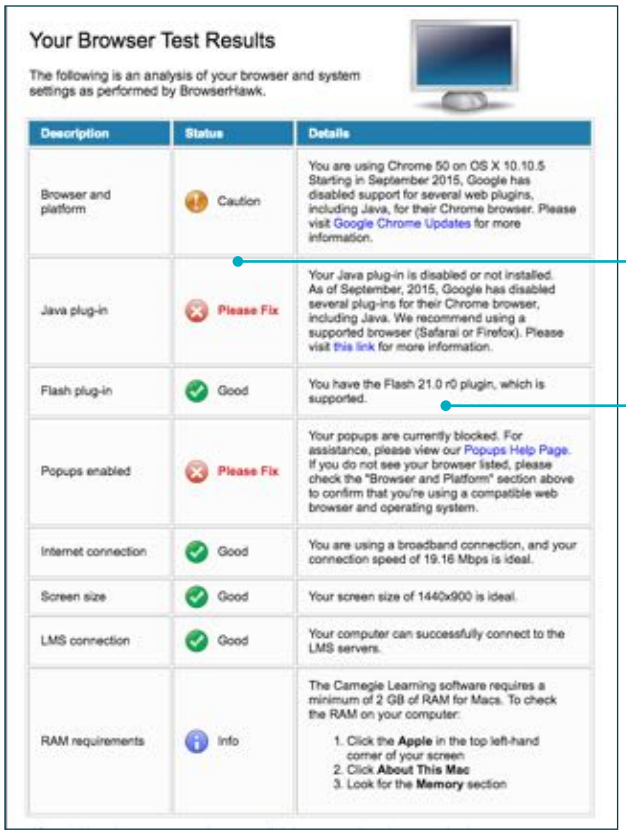
To launch the software:

1. Visit http://online.carnegielearning.com
2. Enter your school ID (given to you by your teacher).
3. Enter your Username (given to you by your teacher).
4. If this is your first time logging in, click **I need a new password**. You will be prompted to enter and confirm a password of your choice and then return to the login page.
5. Enter your password.
6. Click **Log In**.
7. Click to launch the software.

SYSTEM REQUIREMENTS TOOL INSTRUCTIONS

Access the System Requirements Tool from the Software Login page.

The System Requirements Tool will run an analysis to identify any issues with your browser or system settings.



The Status column on the Your Browser Test Results page indicates if any issues were identified with your browser or system settings.

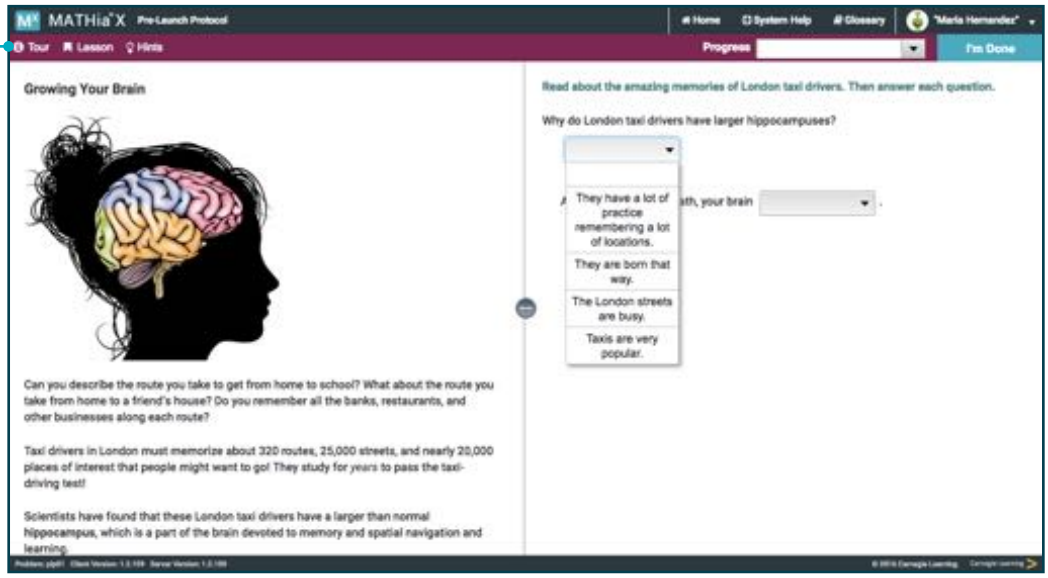
Refer to the Details column for additional information on issues identified.

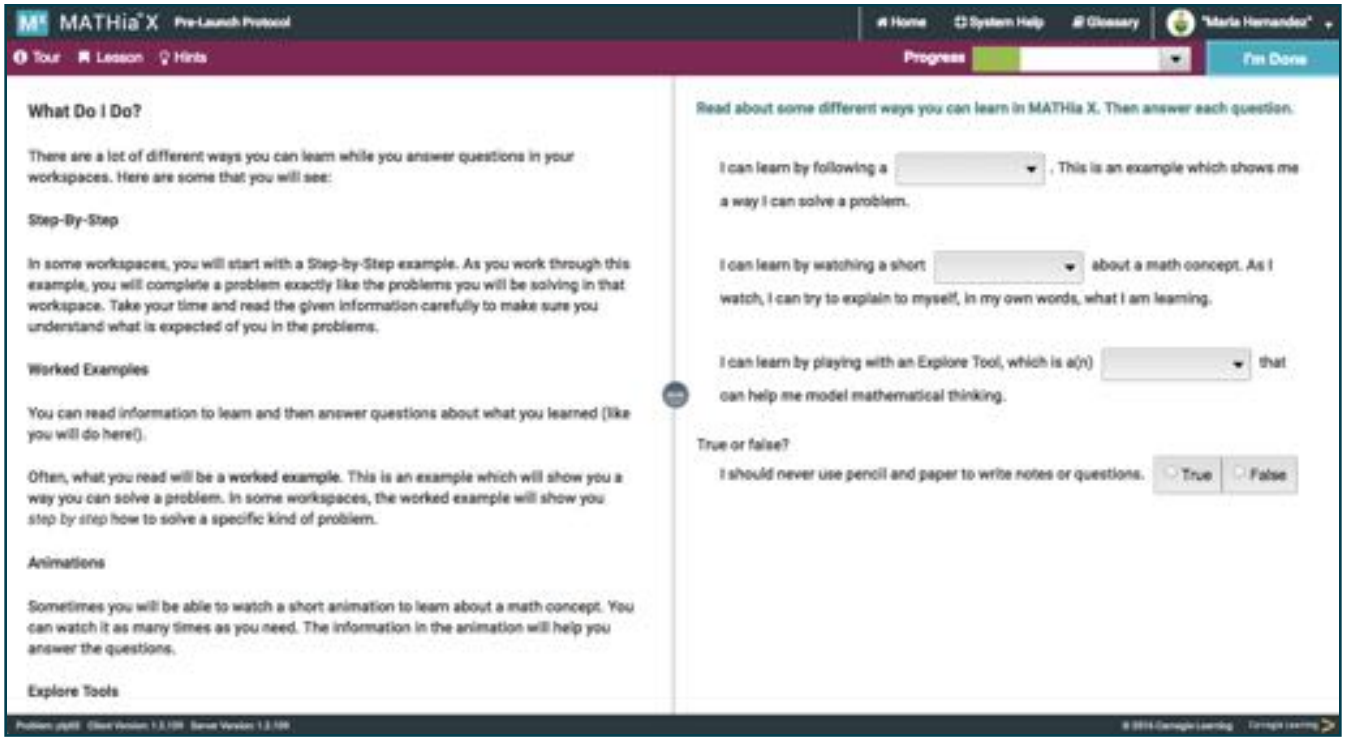
KEY FEATURES OF THE STUDENT SOFTWARE

Pre-Launch Protocol

The Pre-Launch Protocol module is presented at the beginning of each course in the software. It provides an overview on how to use the various tools in MATHia X, as well as introduces key learning science topics.

*Click **Tour** to view descriptions for the various features of MATHia X.*

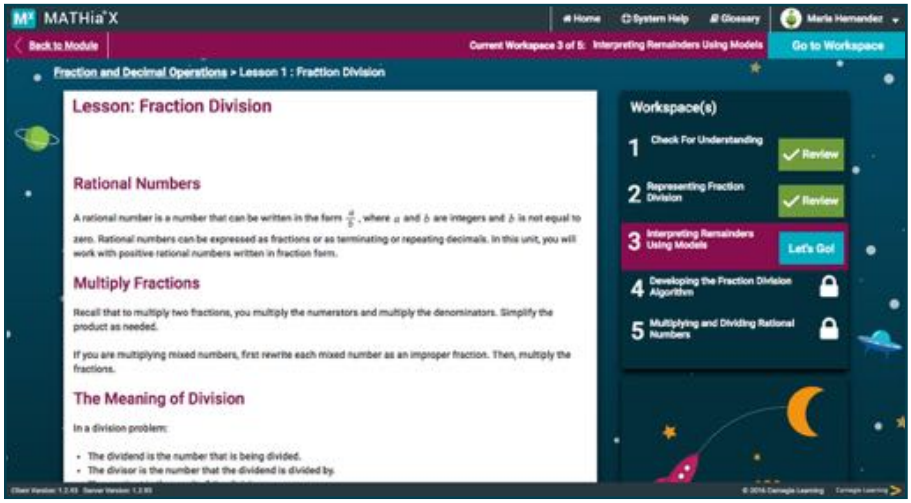


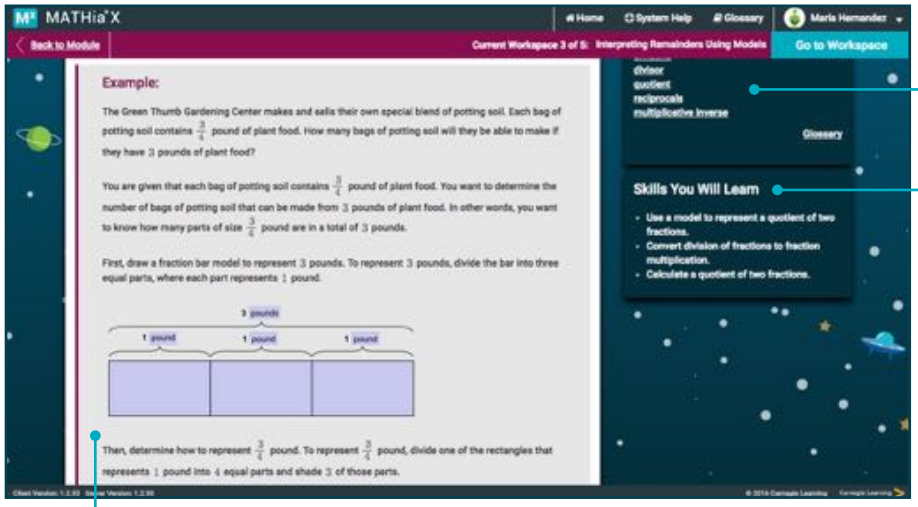


KEY FEATURES OF THE STUDENT SOFTWARE

Lesson Page

The Lesson Page provides a math lesson on specific topics for each unit.





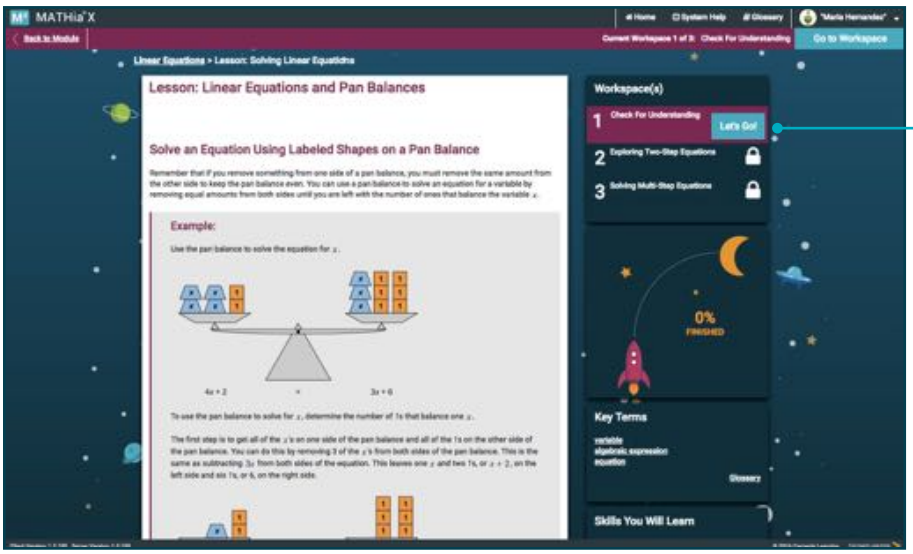
The Key Terms that are introduced in the unit are available here. The Key Terms are hyperlinked to the Glossary.

Skills that you will learn in the unit are listed here. You will see these in the Skillometer™ as you work.

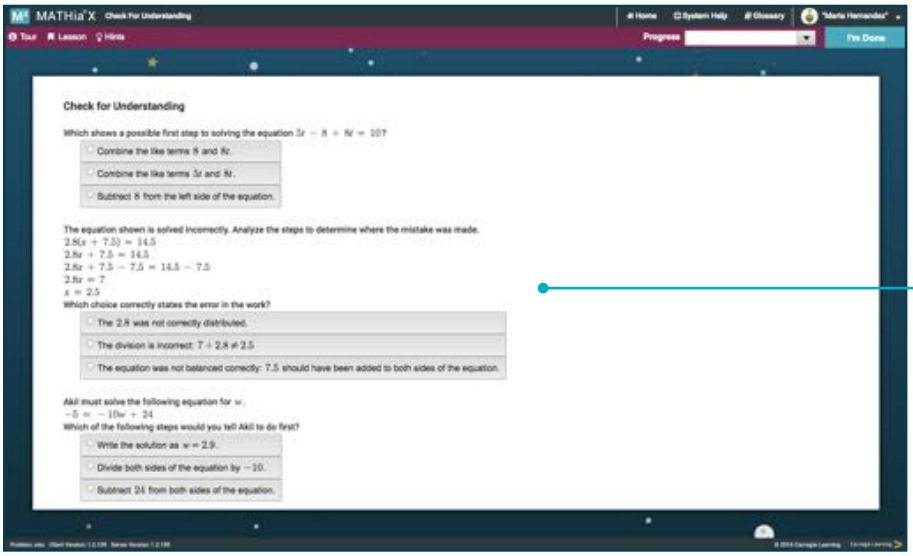
Modeled problems of the math concepts in this unit are displayed on the Lesson Page.

Lesson Page cont'd

After reading the Lesson Page, you will launch into the Check for Understanding questions. Check for Understanding questions can be used to gauge your understanding of material covered in the Lesson Page.



*Click **Let's Go!** to jump to the Check for Understanding if you feel confident in the lesson material.*



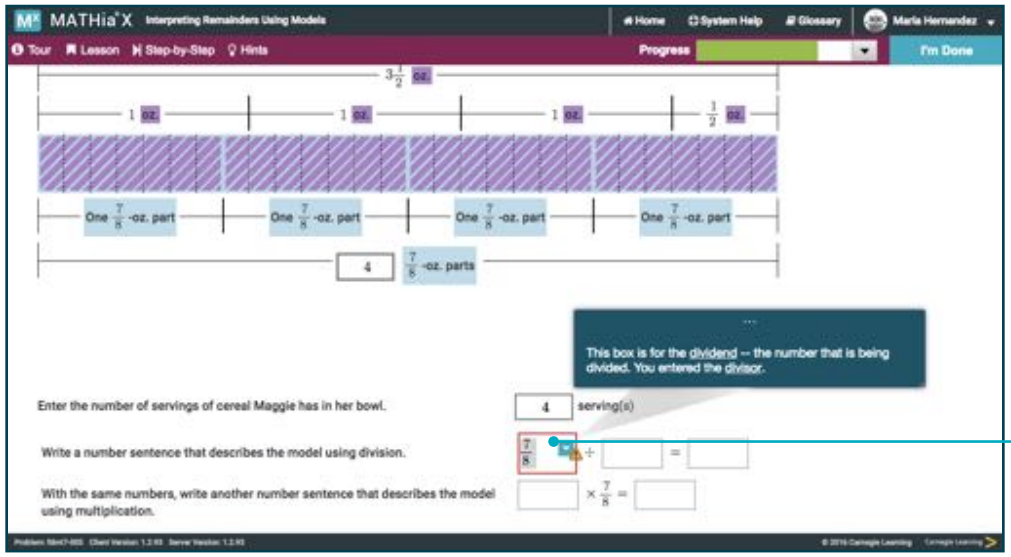
You will receive immediate feedback as you answer questions in the Check for Understanding. When you answer a question, a note is provided re-enforcing the concept, coloring it as red or green, indicating a correct/ incorrect answer. You can try again if your original answer was incorrect.

KEY FEATURES OF THE STUDENT SOFTWARE

Student Help Tools

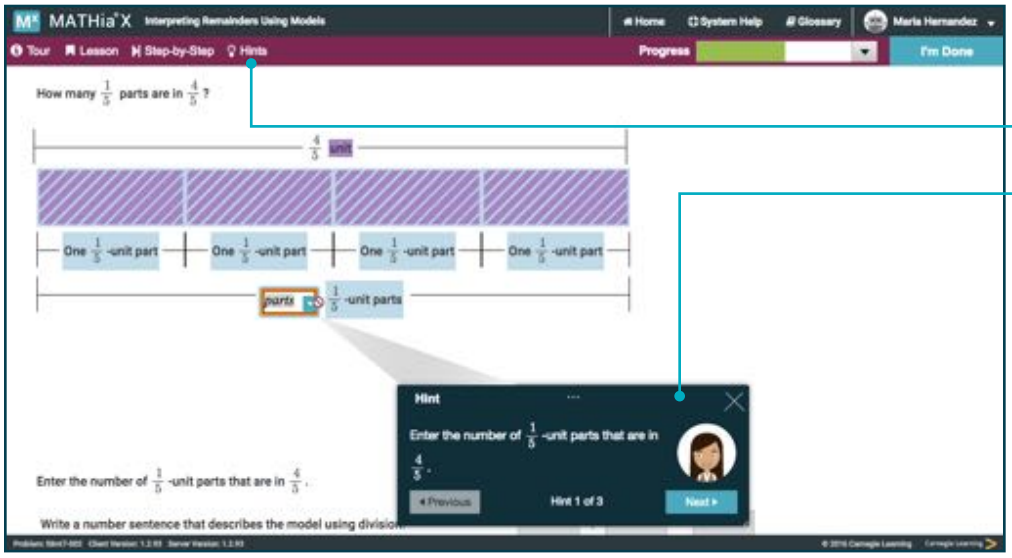
Four forms of help are available throughout the software to help solve the problem you are working on.

1. Just-in-Time Hints automatically appear when you make a common error. Just-in-Time Hints are indicated by the arrow in a red text box.



Position your mouse over the red box to view the hint.

2. On-Demand Hints are hints that you can ask for at any time while working on a problem.

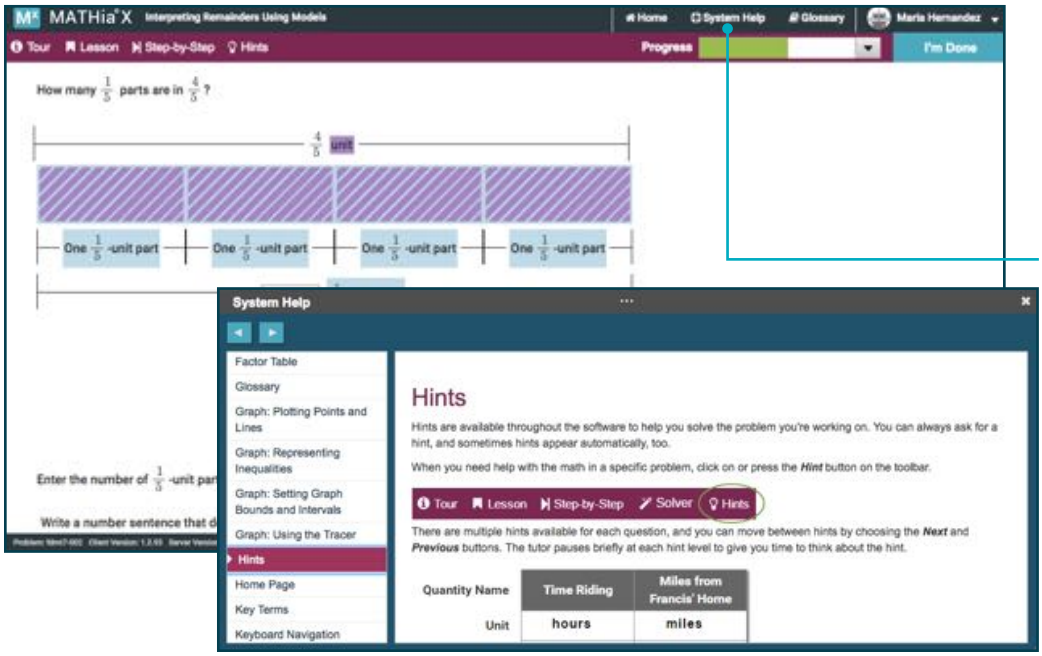


There are multiple hints available for each question. The level of detail of On-Demand Hints increases as you ask for more help.

Student Help Tools

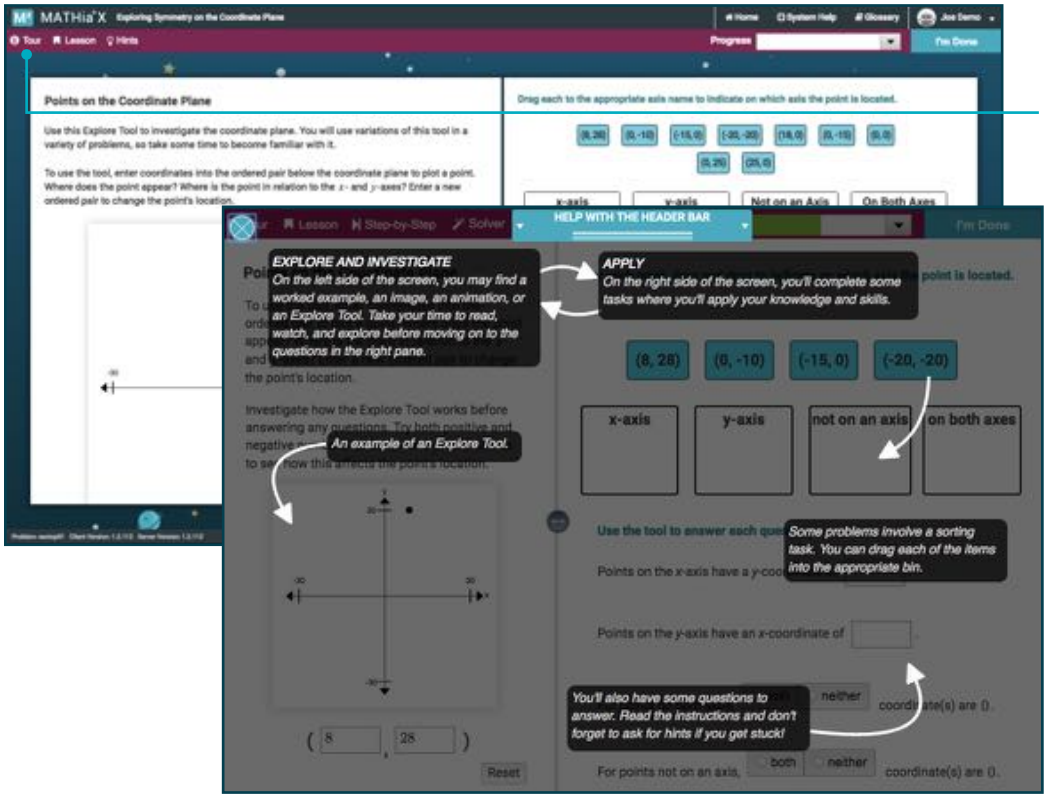
cont'd

3. Click **Help** for detailed assistance with the software tools and interface.



The Help tool provides you with helpful information on getting started and working with the software tools.

4. Click **Tour** to view descriptions for the various features of MATHia X.



The Tour will display an overlay that defines each of the tools on the screen.

KEY FEATURES OF THE STUDENT SOFTWARE

Step by Step

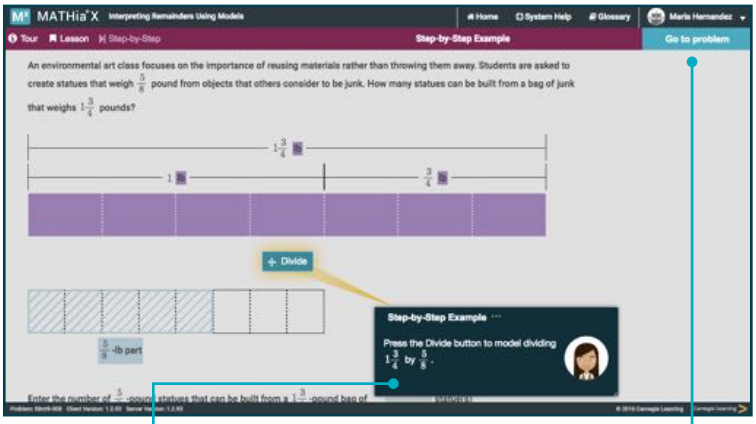
The Step by Step demonstrates how to use the tools in a lesson by guiding you step-by-step through a sample math problem.

Starting a Step by Step

When you click **Let's Go!**, the Step by Step will automatically begin.

Basic Instructions

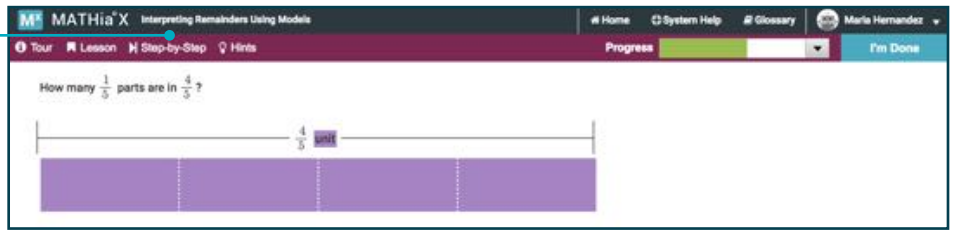
1. Read the scenario.
2. Read the hint in the little window and try to answer the question. If you don't know the answer, you can guess. This will not affect your skill level.
3. If you enter the wrong answer twice, the system will correctly complete the step for you. Take some time to think about why the suggested answer is the correct one.
4. Continue answering the questions until you complete the problem.
5. Click **Go to Problem** to go to the required math problems.



A student Crew Member will walk you through each step of the problem.

*You can **Go to Problem** at any time and toggle between the example and your problem as needed.*

__Step by Step__ is located here. When working on a problem, you can refer back to the Step by Step for assistance.

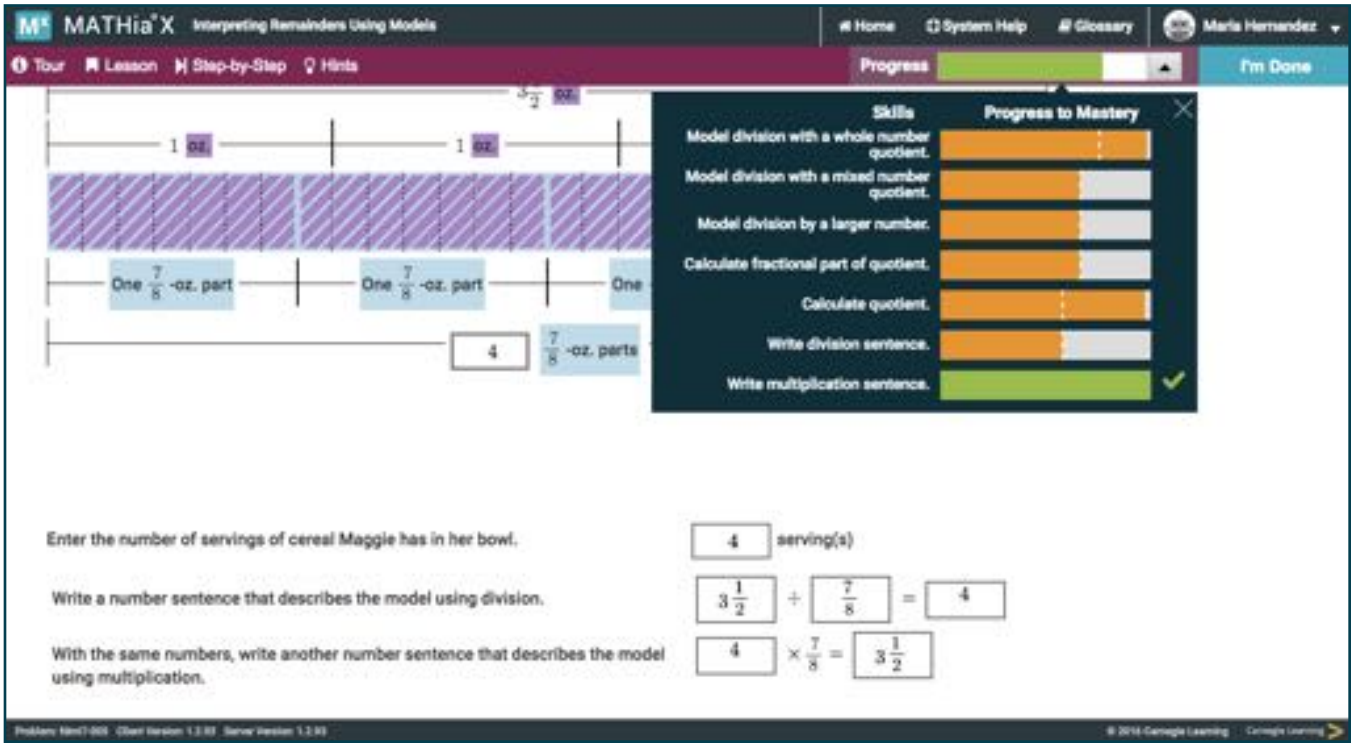


KEY FEATURES OF THE STUDENT SOFTWARE

Skillometer

The Skillometer shows a summary of the major skills that are being covered in a given workspace as well as your progress on those skills.

The name of each skill, such as "Calculate quotient," is displayed along with a level of mastery. The level of mastery is not a percent of your correct and incorrect responses. Rather, it is a predictor of the probability that you will be able to demonstrate that skill again in the future. An orange bar indicates skills that have not been completely mastered. A green bar indicates skills that have been completely mastered in the current workspace. As you work, you will notice the elongated progress meter progressing from orange to green.



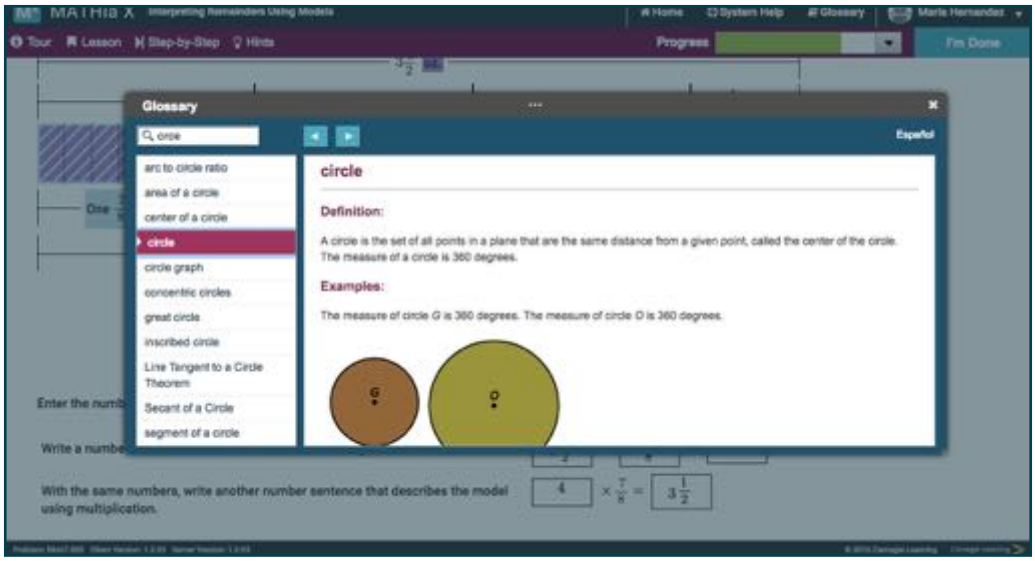
Skill Tracking Behavior

When beginning a given unit, the initial skill levels are not zero because there is some likelihood that you are already familiar with a concept or will be able to learn the skill unassisted. When you answer something correctly, the level of mastery increases because there is a greater probability that you understand the skill and will be able to complete a similar task in the future. Answering incorrectly or asking for a hint usually indicates that you do not understand a given skill, so the level of mastery may decrease. For some skills, it is likely that reading a hint will increase understanding, so the level of mastery may increase. Similarly, for some skills, it is likely that by answering incorrectly, you will "learn from your mistake," so the level of mastery may increase. Note that the level of mastery will stop increasing after a given percent, even if you continually request hints. So, it is not possible for you to "hint" your way through to complete a unit.

KEY FEATURES OF THE STUDENT SOFTWARE

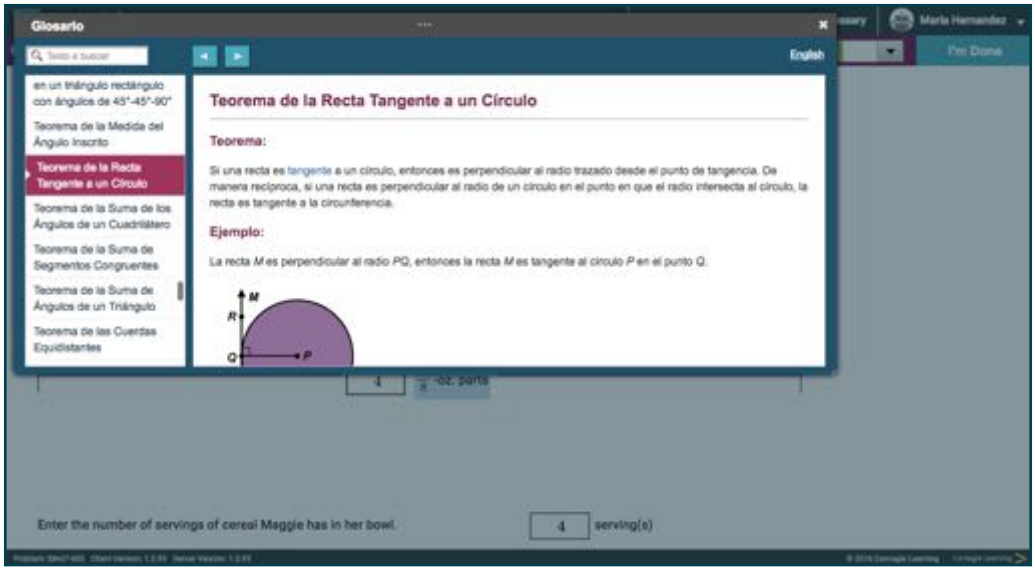
Glossary

The Glossary is available throughout the software. It contains a list of definitions and examples for key mathematical terms used throughout the curriculum. You can open the Glossary by choosing the icon at the top of the screen.



The Glossary is automatically opened when you click on any of the key terms links in the lesson page. For example choosing the link **circle** in the right column of the lesson opens the Glossary entry for circle as shown above.

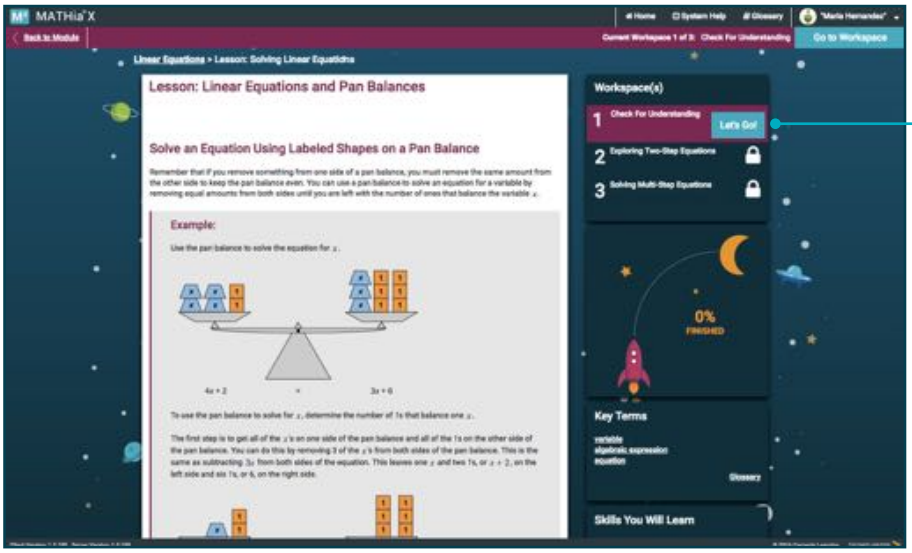
On the search tab of the Glossary, use the find box on the top left to search for a topic or term. You should enter complete words, but do not be too detailed, as the search is based on exact matching of the words entered. Any topic or term in the Glossary that has text matching your search will be displayed in the left window, in alphabetical order. Click on the term in the left window that you wish to view. A definition and example for the term will appear in the right window. The Glossary is also available in Spanish and can be accessed by clicking the English button at the top.



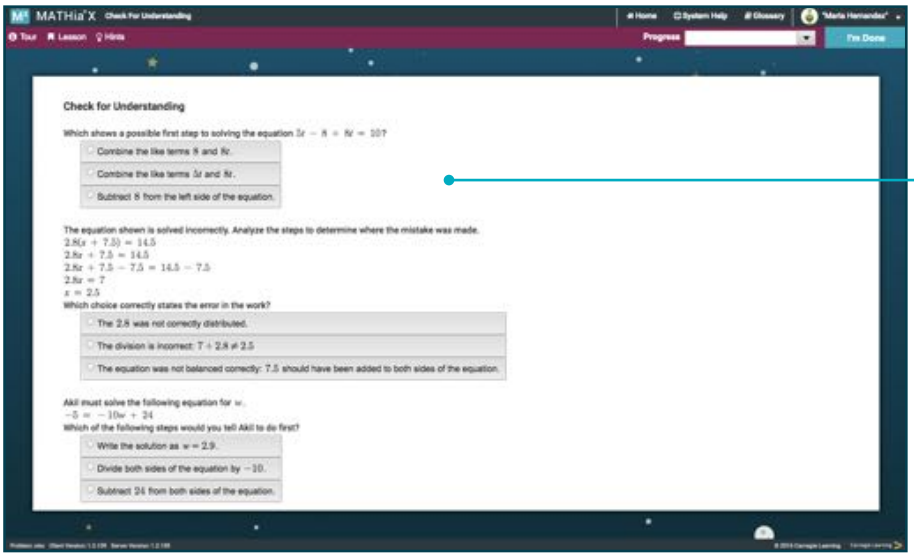
KEY FEATURES OF THE STUDENT SOFTWARE

Check for Understanding

The Check for Understanding gauges your understanding of material to be covered in the upcoming lesson.



Access the Check for Understanding from the Lesson Page.



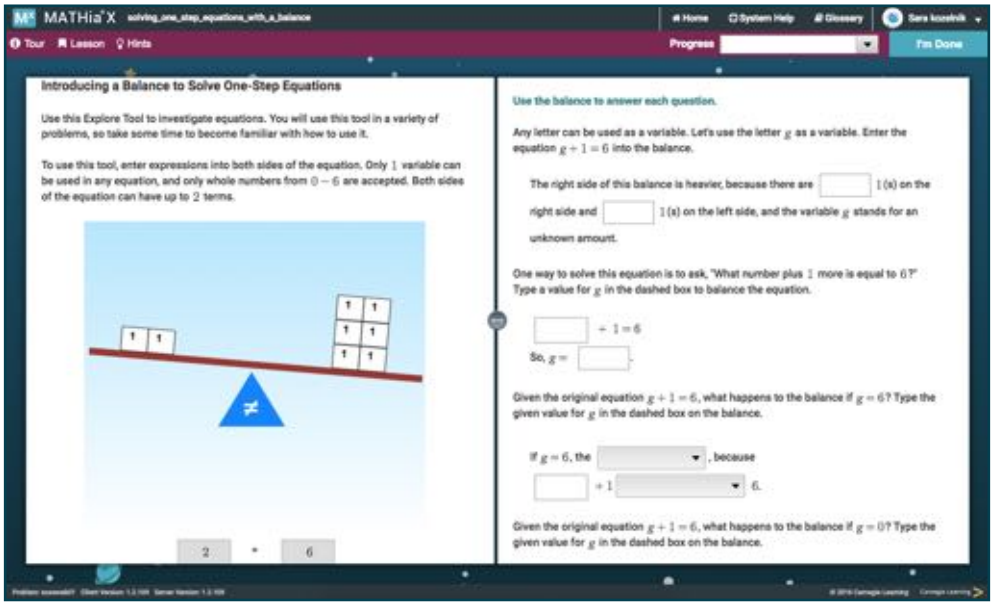
You will receive immediate feedback as you answer questions in the Check for Understanding. When you answer a question, a note is provided re-enforcing the concept and coloring as red or green, indicating a correct/ incorrect answer. You can try again if your original answer was incorrect.

KEY FEATURES OF THE STUDENT SOFTWARE

Instructional Tools

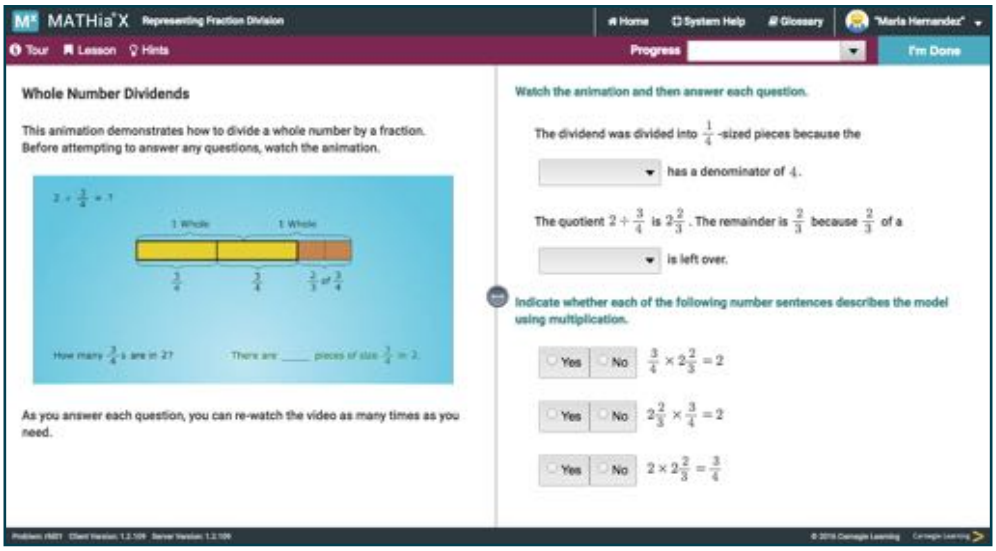
Explore Tools

Explore Tools allow you the opportunity to investigate different mathematical concepts, search for patterns, and look for structure in ways that make sense to you. These tools also provide optional supports for you as you answer questions and solve problems.



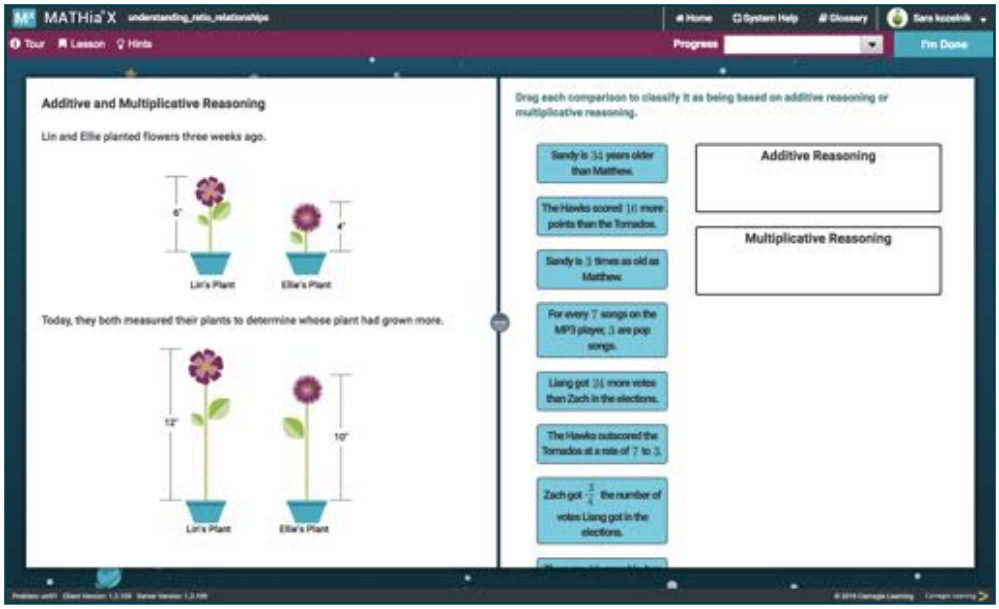
Animations

Animations provide you with an opportunity to watch, pause, and re-watch demonstrations of various mathematical concepts. They are a way to connect the visual representations of different mathematical ideas to their abstract underpinnings through visual representations and audio narrative.



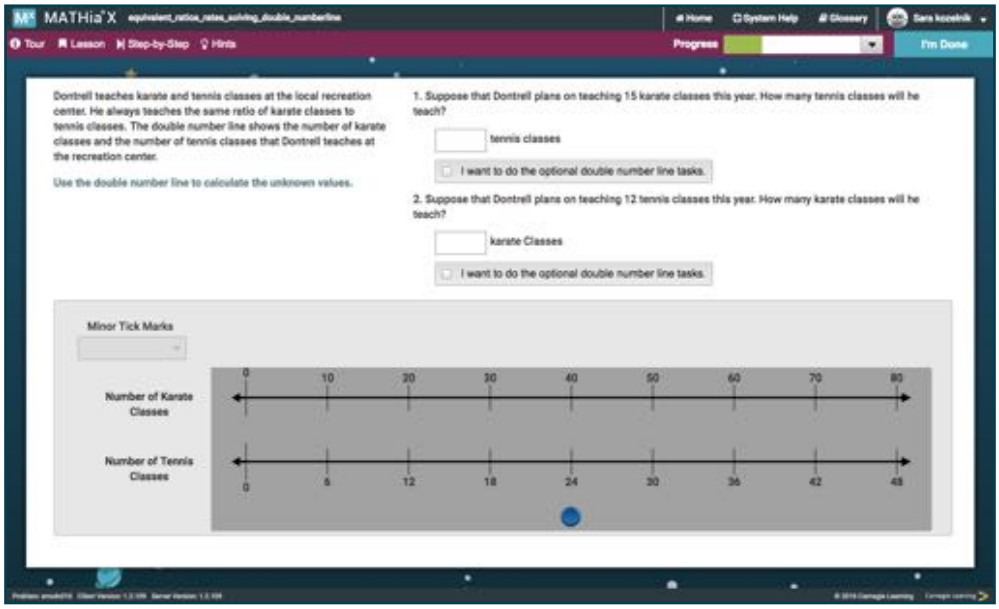
Classification Tools

Classification tools allow you to apply your mathematical understanding into the form of categorizing answers based on similarities. These tools also provide you with the means to demonstrate proficiency in recognizing patterns in problem structure.



Problem Solving

Problem solving tools provide you with highly individualized and self-paced instruction that adapts to your exact needs to deepen your conceptual understanding of the mathematics. Through adaptive learning technologies, you engage in reasoning and sense-making.



Instructional Tools

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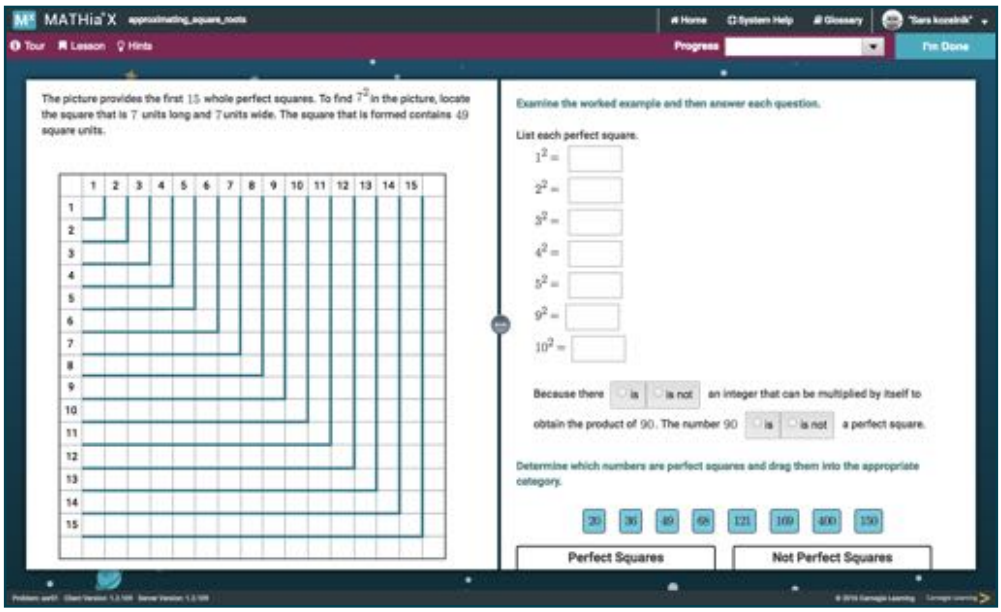
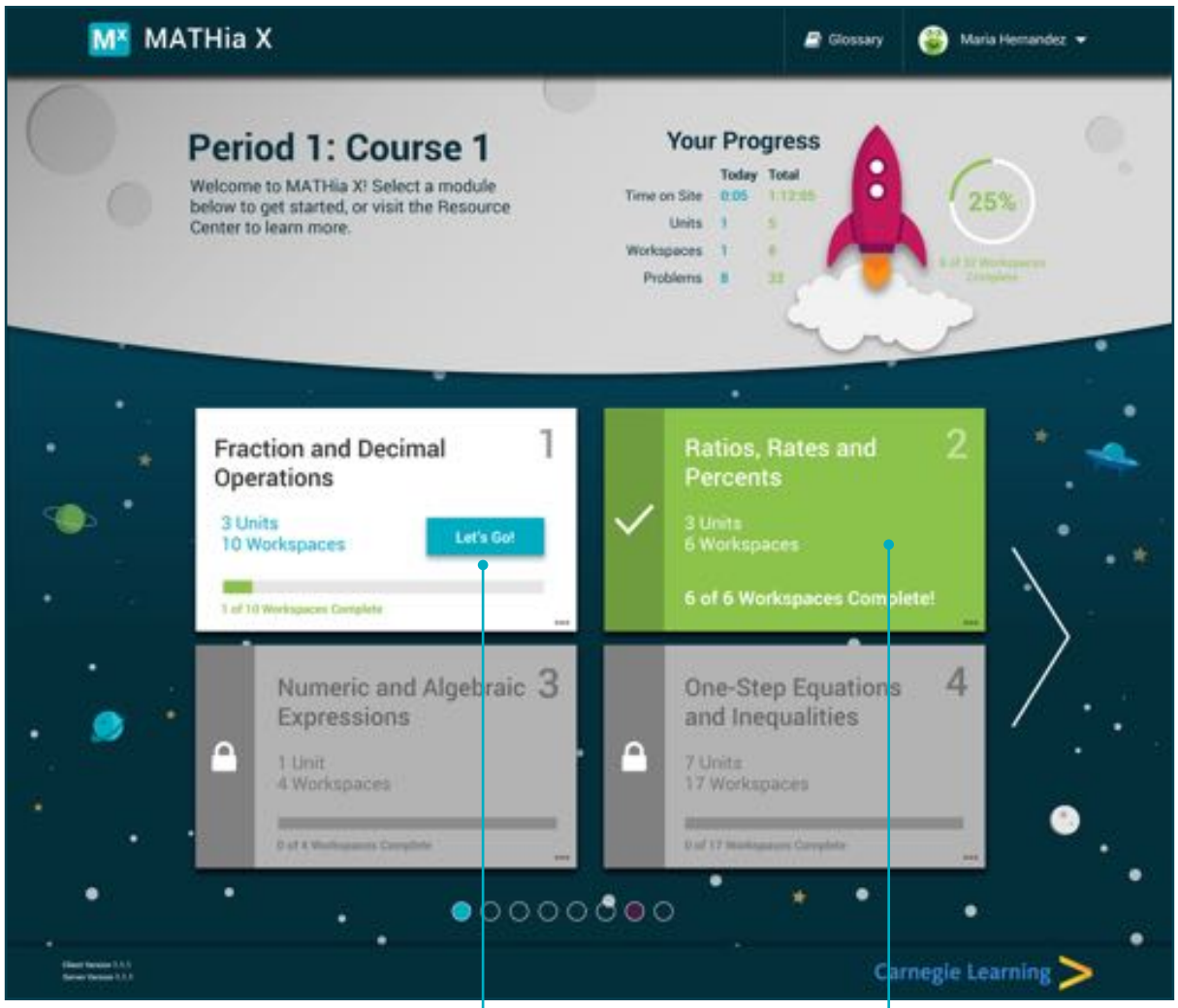
Worked Examples

Worked Examples provide you with a tool that allows you to question your understanding, make connections with the steps, and ultimately self-explain. Analyzing Worked Examples also allows you to identify your own misconceptions, make sense of the mathematical concepts, and then ultimately to persevere in problem solving.



Homepage
You have a clear picture of the work that is ahead of you. You see the modules, units, and number of workspaces assigned to you.



*Unlocked units have a **Let's Go!** or a **Review** button. Review indicates completed units that you can go back to and review.*

Modules can be expanded or collapsed by clicking the empty space.

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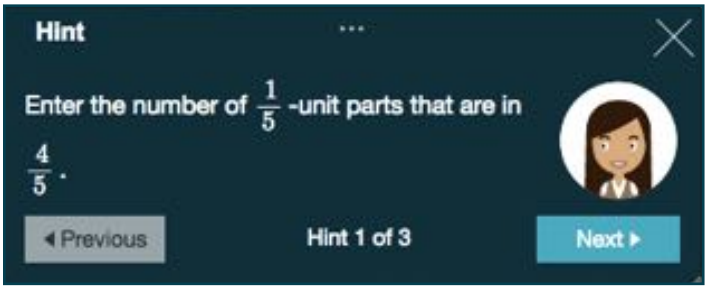
Student Crew

As in the text, the characters in the software will provide information to help you along the way.



Growth Mindset Language in Animation

Research shows students who believe that they can get smarter will work harder. Learning about the way the brain changes as you learn has been shown to encourage you to believe you have the capability to learn. Within MATHia X, we praise effort above innate ability.

CUSTOMER SUPPORT

Customer Support is available to answer your questions about using the software.

Email: help@carnegielearning.com

Phone: 877.401.CLCS (2527) or 888.851.7094 (Select Option 3)

Chat: Visit resources.carnegielearning.com/contact-us to connect with us via chat.

Websites:

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Technical Support Website
http://www.carnegielearning.com/support