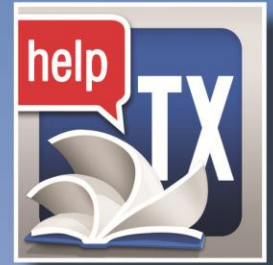
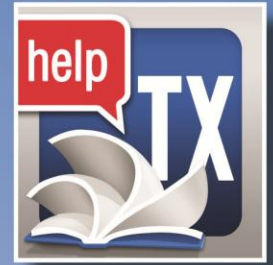


# The Algebra I Help TX EOC App



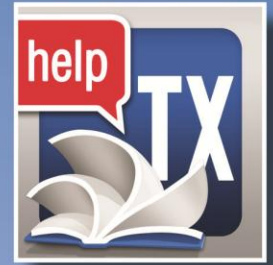
The Algebra I Help TX EOC App was created to help students prepare for the new Algebra I EOC.

We worked with the Plano Independent School District to design, develop, and pilot the app. Feedback from teachers and students informed revisions and refinements.



The app not only provides practice on the kinds of items that will be on the Algebra I EOC, it offers review and remediation, as needed by individual students.

Using the app will increase students' understanding of the math that will be tested, and their confidence!



The 100 questions included in the app reflect the item types, format, and distribution of the Texas Algebra I EOC and its blueprint.

Each one is tightly aligned to the Texas Essential Knowledge and Skills for Algebra.



The five objectives parallel the reporting categories of the End-of-Course test.

Objective 1: Functional Relationships

Objective 2: Properties and Attributes of Functions

Objective 3: Linear Functions

Objective 4: Linear Equations and

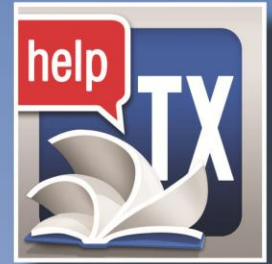
Objective 5: Quadratic & Other Nonlinear  
Functions



Each question includes four multiple choice options.

One choice is the correct answer.

The other three choices represent the most common misunderstandings and errors identified by research.



10:46 AM 100%

Question 10 Details

**line:**  
an infinite set of points forming a straight path extending in opposite directions

The graph shows the money saved by two girls over time.

The **x-axis** shows the time that have passed, and the **y-axis** shows the money saved.

The equation  $y = 5x + 20$  represents the money Sasha has saved.

This is shown with the dotted **line** on the graph.

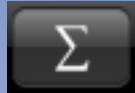
The **equation**  $y = 5x + 10$  represents the money Antonia has saved.

This is shown with the solid **line** on the graph.

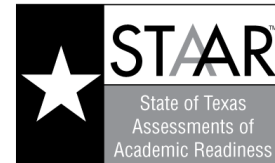
What is the **solution** to this **system of equations**?

As students read the problems, important math vocabulary is highlighted in green. They can click on these words to get a definition.



Students can click on an icon  to access the same formula chart available during the EOC test

## STAAR ALGEBRA I REFERENCE MATERIALS



### GENERAL FORMULAS

Slope of a line

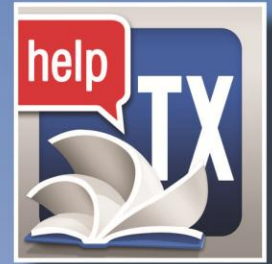
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Pythagorean theorem

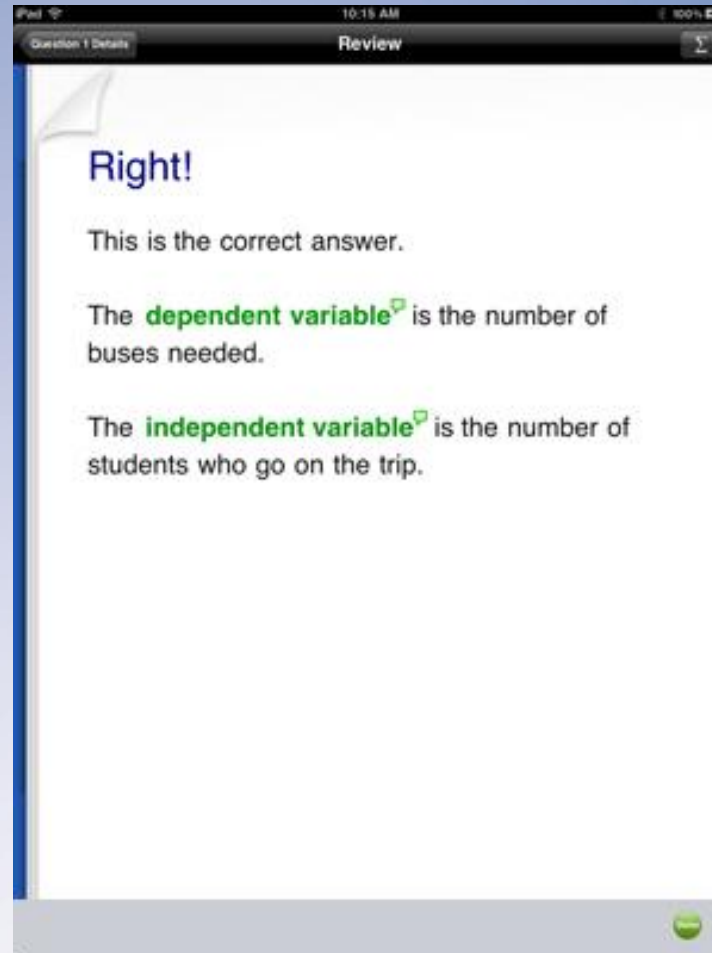
$$a^2 + b^2 = c^2$$

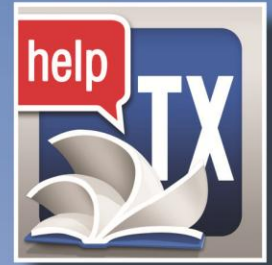
Quadratic formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



When a student makes a correct choice, he or she gets immediate, positive feedback and content reinforcement





When a student makes an incorrect answer choice, he or she gets an immediate, tailored review sequence keyed to the misunderstanding or error and illustrating the correct strategy and solution.

Review

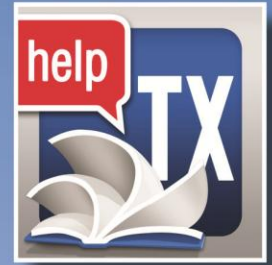
Oops.

This is not correct.

This situation cannot be represented by the **quadratic relationship**<sup>□</sup>,  $m = (0.02)2d^2$ .

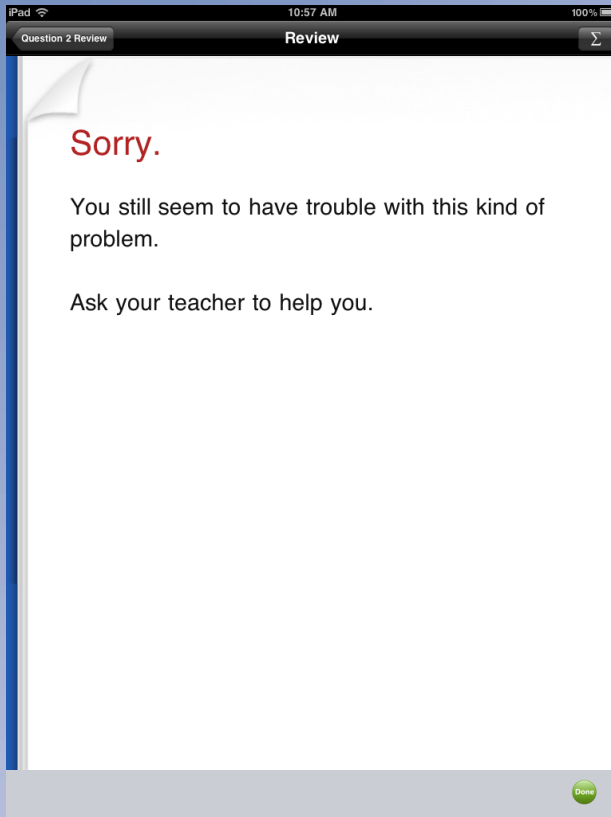
Let's look at a chart that shows the money Pedro's father gives him on the first 6 days.

Day ( $d$ )	Amount of Money Given ( $m$ )
1	\$0.02
2	\$0.04

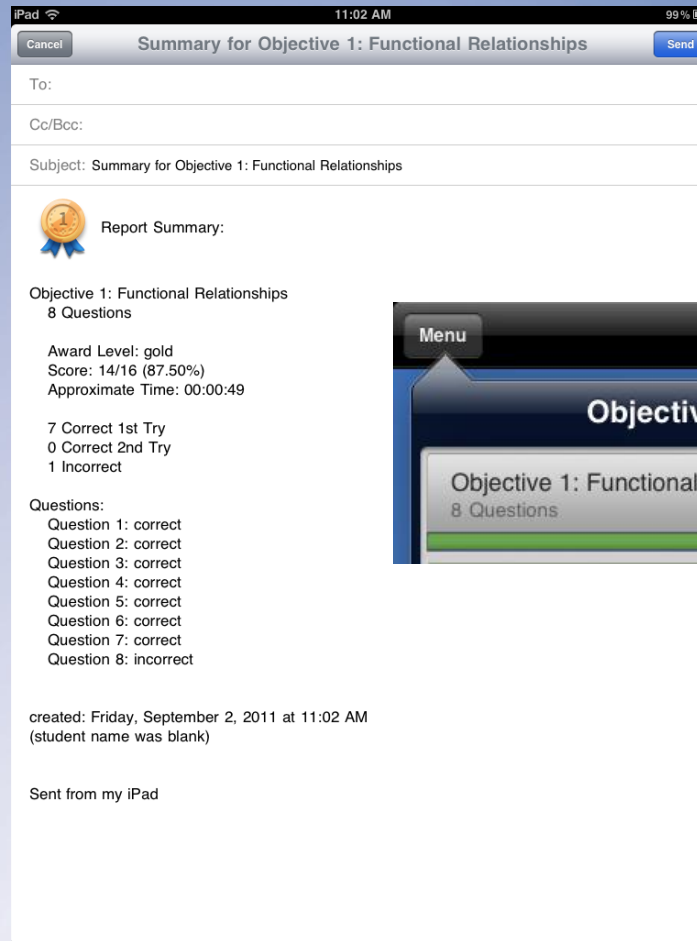


After the review sequence, students have the opportunity to answer another, similar problem.

If they get it right, they move on. If they are still having difficulty, they are urged to discuss with their teacher.

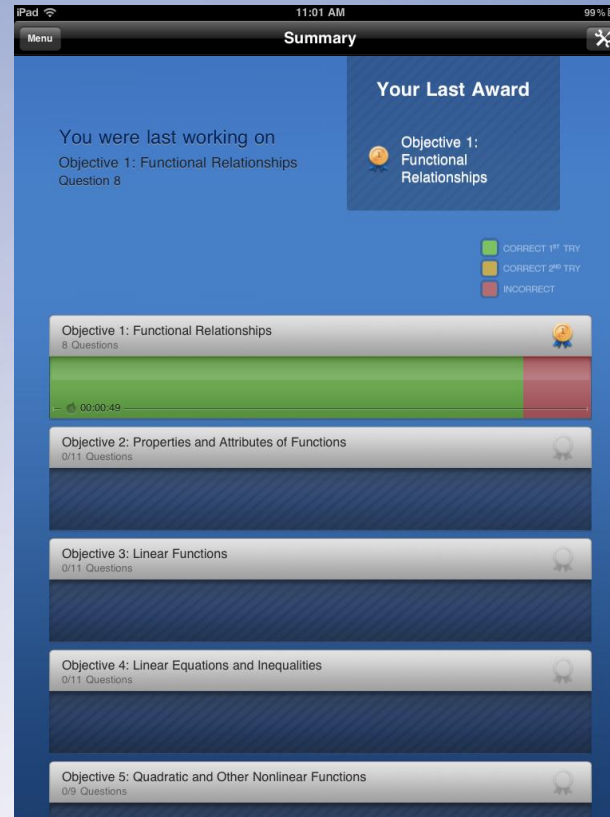


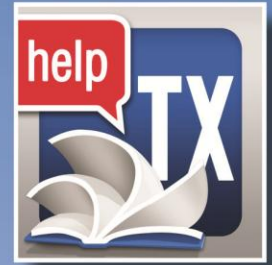
Students receive feedback on their performance at the end of each objective and can e-mail their results to their teacher.





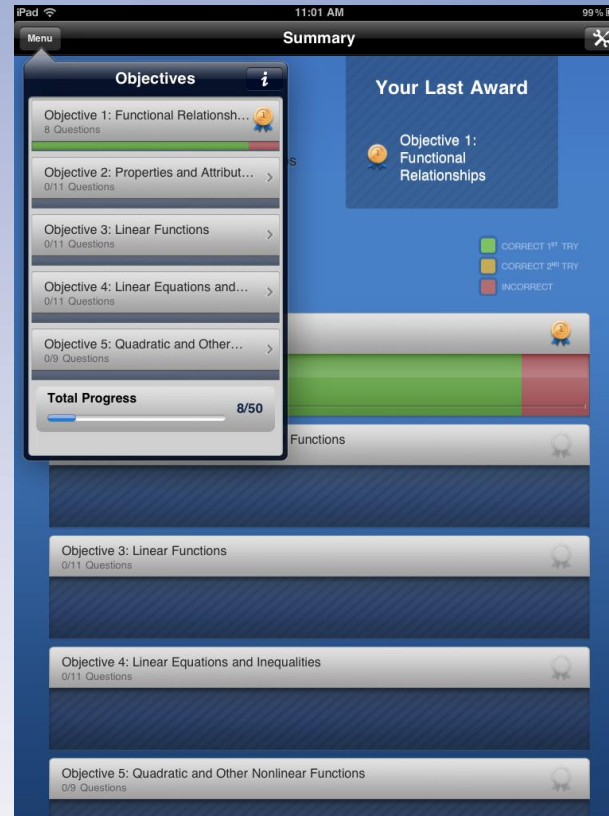
At the end of the objective (with or without remediation), students may be awarded a bronze, silver, or gold medal to celebrate their success.

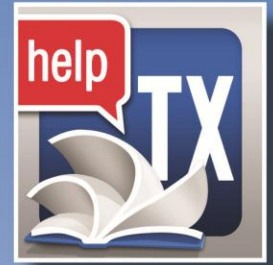




Throughout their time with the app, students are provided a visual report of their “total progress” through the 50 questions.

Within each objective, they receive similar information.





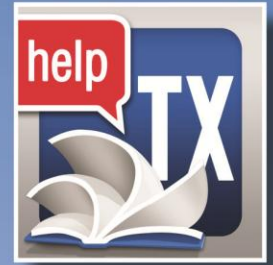
Students and their teachers appreciate the Texas Algebra I Help EOC App:

“This really helped me!”

—Texas student

“Students really enjoy . . . does not have the stigma that a worksheet does”

—Texas teacher



This app is designed for iPhone,  
iPodTouch, and iPad

Open iTunes to buy and download  
for \$6.99 per student

Contact us for more information  
about district purchase/distribution



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