
ALGEBRA I

Student Text

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Acknowledgements

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The Carnegie Learning Development Team

Algebra was used in a variety of ways to design the building and surrounding grounds on the front cover. Architects designed the sides of the pyramid with slopes that were structurally sound and pleasing to the eye. Stone masons calculated the number of bricks needed for the sidewalk and designed the pattern in which they were laid. Landscapers mixed the fertilizer for the grass and shrubbery with the correct ratio of water and chemicals. As you work through the Cognitive Tutor® *Algebra I* text and software, you will see additional opportunities for using Algebra in your everyday activities.

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Dear Student,

You are about to begin an exciting adventure using mathematics, the language of science and technology. As you sit in front of a computer screen or video game, ride in an automobile, fly in a plane, talk on a cellular phone, or use any of the tools of modern society, realize that mathematics was critical in its invention, design, and production.

The workplace today demands that employees be technologically literate, work well in teams, and be self-starters. At Carnegie Learning, we have designed a mathematics course that uses state-of-the-art computer software with collaborative classroom activities.

As you use the Cognitive Tutor® ***Algebra I*** software, it actually learns about you as you learn about mathematics. As you work, you will receive “just-in-time” instruction so that you are always ready for the next problem. In the classroom, you will work with your peers to solve real-world problem situations. Working in groups, you will learn to use multiple representations to analyze questions and write or present your answers.

Throughout the entire process, your teacher will be a facilitator and guide in support of your learning. As a result, you will become a self-sufficient learner, moving through the software and Student Text at your own rate and discovering solutions to problems that you never thought were possible to solve.

Throughout this year, have fun while Learning by Doing!

The Cognitive Tutor® *Algebra I* Development Team

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