Now

In Chapter 5, you will apply the big ideas listed below and reviewed in the Chapter Summary on page 344. You will also use the key vocabulary listed below.

Big Ideas

- Writing linear equations in a variety of forms
- Using linear models to solve problems
- Modeling data with a line of fit

KEY VOCABULARY

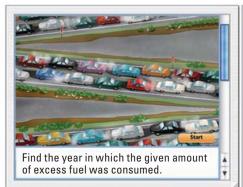
- point-slope form, p. 302
- converse, p. 319
- perpendicular, p. 320
- scatter plot, p. 325
- correlation, p. 325
- line of fit, p. 326
- best-fitting line, p. 335
- linear regression, p. 335
- interpolation, p. 335
- extrapolation, p. 336
- zero of a function, p. 337

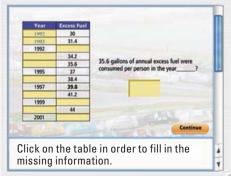
Why?

You can use linear equations to solve problems involving a constant rate of change. For example, you can write an equation that models how traffic delays affected excess fuel consumption over time.

Animated Algebra

The animation illustrated below for Exercise 40 on p. 307 helps you to answer the question: In what year was a certain amount of excess fuel consumed?





Animated Algebra at classzone.com

Other animations for Chapter 5: pages 283, 303, 307, 311, 322, 327, and 335