

In Chapter 7, you will apply the big ideas listed below and reviewed in the Chapter Summary on page 474. You will also use the key vocabulary listed below.

Big Ideas

- 🚺 Solving linear systems by graphing
- 🙆 Solving linear systems using algebra
- Ø Solving systems of linear inequalities

KEY VOCABULARY

- system of linear equations, *p. 427*
- solution of a system of linear equations, *p.* 427
- consistent independent system, p. 427
- inconsistent system, *p. 459*consistent dependent system, *p. 459*
- system of linear inequalities, p. 466
- solution of a system of linear inequalities, p. 466
- graph of a system of linear inequalities, *p. 466*



You can use a system of linear equations to solve problems about traveling with and against a current. For example, you can write and solve a system of linear equations to find the average speed of a kayak in still water.

Animated Algebra

The animation illustrated below for Example 4 on page 446 helps you answer this question: What is the average speed of the kayak in still water?



Animated Algebra at classzone.com

Other animations for Chapter 7: pages 428, 435, 441, 446, 452, 459, and 466