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1-5 Skills Practice: Use a Problem Solving Plan

Alg 1

- 1. Identify what you know and what you need to find out. You do not need to solve the problem.
 - a. You are making cookies for a bake sale and need to make enough cookies to fill 24 boxes containing 6 cookies each. How many dozen cookies do you need to make?
 - **b.** The cellular phone plan you signed up for gives you 400 minutes a month for \$35 and charges \$.15 for each additional minute over 400 minutes. How long can you talk on the phone each month and stay within a budget of \$45?
- 2. State the formula that is needed to solve the problem. You do not need to solve the problem.
 - a. You invest \$200 into a savings account that earns 2% simple interest. How long will it take to earn \$50 in interest?
 - **b.** It takes you half an hour to travel 26 miles to work. What is your average speed?
- 3. Sticker Collection: Your sticker collection consists of 175 stickers. Each sticker is either an animated cartoon character or an animal. There are 43 less stickers that are animated characters than stickers that are animals. Let x be the number of stickers that are animals. Which equation correctly models this situation?

A.
$$x - 43 = 175$$

B.
$$x + (x + 43) = 175$$
 C. $x + (x - 43) = 175$

C.
$$x + (x - 43) = 175$$

Explain.

