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## Homework Practice

## Problem-Solving Investigation: Solve a Simpler Problem

## Mixed Problem Solving

## Use the solve a simpler problem strategy to solve Exercises 1 and 2.

1. CHECKERS A checkerboard has 8 squares on each side. How many squares of different sizes (1-by-1, 2 -by- 2 , etc) are there on a checkboard?

2. ADDRESSES The buildings on Daugherty Road are even-numbered from 12 to 136. How many buildings have an address with at least one 4?

Use any strategy to solve Exercises 3-5. Some strategies are shown below.

Problem-Solving Strategies

- Work backward.
- Look for a pattern.
- Choose an operation.

3. SPORTS Every 12 times at bat, Simon hits the ball 3 times. About how many times will he hit the ball after 20 times at bat? 40 ? 84?
4. NUMBERS A number is halved. Then three is subtracted from the quotient, and 5 is multiplied by the difference. Finally, 1 is added to the product. If the ending number is 26 , what was the beginning number?
5. TILES A kitchen is 10 feet long and 8 feet wide. If kitchen floor tiles are $2 \frac{1}{2}$ inches by 3 inches, how many tiles are needed for the kitchen?
