## **5** Ratios, Rates, and Data Analysis

- 5.1 Ratios
- 5.2 Rates
- 5.3 Solving Rate Problems
- 5.4 Mean
- 5.5 Median, Mode, and Range
- 5.6 Analyzing Data Sets



"The speed limit is 18 miles per hour, but that's no problem because we're going to the hot dog stand, and that's only one-half mile away."



"By my records, I ate 1460 dog biscuits last year."



"So I calculated that my unit rate is 4 biscuits per day."



• 3948 more male athletes participated.

## Example 4 How many athletes participated in the 2000 Summer Olympics.

6582 + 4069 = 10,651 athletes participated in the 2000 Summer Olympics.

## Try It Yourself

**5.** How many more female athletes participated in the 2008 Summer Olympics than in the 1992 Summer Olympics?

Year

**6.** Describe the relationship between the number of athletes in the 2000 Summer Olympics and the number of athletes in the 2004 Summer Olympics.