Name	Date



Skills Maintenance

Using Variables

Activity 1

Substitute the correct value for the variable in each of the problems.

- **1**. *x* + 7 = 25 *x* = _____
- **2**. 43 + *b* = 125 *b* = _____
- **3**. 18 ÷ *z* = 3 *z* = _____
- **4**. $c \div 9 = 7$ c =_____
- **5**. 400 300 = *y y* = _____
- **6**. 197 *a* = 2 *a* = _____

Activity 2

Substitute the values for the variables and solve.

- 1. What is the value of n + 1 if n = 7?
- **2**. If 2 + *x* = 8, what is the value of *x*? _____
- **3**. What is the value of 4 + *y* if *y* = 18? _____
- **4**. Solve *n* − 8 if *n* = 17. _____
- **5**. If *z* = 25, solve *z* ÷ 5. _____
- 6. What is the value of $m \div 9$ if m = 81?

Lesson 4 Apply Skill

Name	Date			
%÷ ≓< x	Apply Skills Ratios			
	Activity 1			
Us	e three methods for writing ratios based on the hand			
1.	What is the ratio of hearts to diamonds?			
2.	What is the ratio of spades to the entire hand?			
3.	What is the ratio of 3s to the entire hand? 3s to			
4.	What is the ratio of 3s to 7s in this hand? 3s to 7s			
5.	What is the ratio of clubs to the entire hand?			
6.	Explain why it's important to label the things you are comparing in the ratios.			

Name		

_ Date __



Problem-Solving Activity

Word Problems With Ratios

Now it is your turn to solve some ratio word problems. Remember to start with the labels. This will tell you what numbers to look for in the problem. If the numbers are not there, you will need to compute them. Then connect the labels with the numbers and write the answer as a ratio.

- 1. Your math class has 27 students. There are 12 seniors and the rest are juniors. What is the senior-to-junior ratio?
- 2. The football team has 12 wins and 6 losses. What is the win-to-loss ratio?
- **3**. There are 3 bird owners, 4 cat owners, and 2 dog owners in a complex of 18 apartments. All other owners have no pets. What is the bird-owner to cat-owner ratio?
- 4. If there are 300 students in the sophomore class and 180 of them are girls, what is the boy-to-girl ratio?
- 5. If the recipe calls for 1 cup sugar and 2 eggs, what is the sugar-to-egg ratio?
- 6. Suppose you are dealt 5 hearts, 3 diamonds, 1 spade, and 1 club. What is the ratio of hearts to the entire hand of cards?

mBook Reinforce Understanding

Use the **mBook** Study Guide to review lesson concepts.