Name	Date



### **Skills Maintenance**

**Basic Facts With Variables** 

#### Activity 1

Solve the basic facts. Write the answer above the variable.

- **1**. 4 + 7 = *m*
- **2**. x 6 = 9
- **3**. *y* 4 = 36
- **4**.  $8 \div s = 2$
- **5**.  $7 \cdot t = 42$
- **6**. *z* + 8 = 17
- **7**. 15 − 7 = *k*
- **8**.  $b \div 9 = 9$
- **9**. *h*•9 = 27
- **10**. 7 + 7 = *v*
- **11**. *w* 8 = 32
- **12**. 18 − 9 = *d*

Lesson 3	Apply Skills
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#### Activity 1

Substitute the value for the variable that makes each statement true.

- 1. What is the value of *x* in *x* + 12 = 17? *x* = \_\_\_\_\_
- **2**. What is the value of a in  $a \cdot 7 = 56$ ? a =\_\_\_\_\_
- **3**. What is the value of *b* in  $45 \div 9 = b$ ?  $b = \_$
- **4**. What is the value of *z* in 27 − *z* = 18? *z* = \_\_\_\_\_
- 5. What is the value of *w* in 39 + 47 = *w*? *w* = \_\_\_\_\_
- 6. What is the value of *d* in d 25 = 25? d =\_\_\_\_\_
- 7. What is the value of y in  $5 \cdot y = 35$ ? y =\_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_

#### Activity 2

Substitute values for the variables in the general statements and tell if the statements are true or false.

1. x+y+z=y+z+x Substitute x = 5, y = 6 and z = 10. + y + z =y +Х Ζ + Х  $\downarrow$  $\downarrow$  $\downarrow$  $\downarrow$  $\downarrow$  $\downarrow$ \_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ + \_\_\_\_ +Is the statement true or false? \_\_\_\_\_ **2**.  $x \cdot y \cdot z = z \cdot x \cdot y$  Substitute x = 5, y = 6 and z = 10.  $x \cdot y \cdot z = z$ • х • у  $\downarrow$  $\downarrow$  $\downarrow$  $\downarrow$ · \_\_\_\_ • \_\_\_\_ • \_\_\_\_ = \_\_\_\_ • \_\_\_\_ Is the statement true or false? \_\_\_\_\_ **3**.  $w \cdot 0 = w$  Substitute w = 12. 0 = W W  $\downarrow$  $\downarrow$  $\downarrow$ 0 = Is the statement true or false? \_\_\_\_\_ **4**. 0 + d = 0 Substitute  $d = \frac{3}{4}$ . 0 d = +0  $\downarrow$  $\downarrow$ + \_\_\_\_ = 0 0 Is the statement true or false? \_\_\_\_\_ **5**.  $0 \cdot q = 0$  Substitute q = 2.7. 0 = 0 g  $\downarrow$ • \_\_\_\_ = 0 0 Is the statement true or false? \_\_\_\_\_

Name	Date



## **Problem-Solving Activity**

Pattern Cards

Look at the set of pattern cards. Cards 1 and 2 have stars and triangles, but Card 3 has only triangles. Analyze the pattern in Cards 1 and 2 and tell how many stars there should be on Card 3. Then answer the questions.



- Card 1 Card 2 Card 3
- 1. What is the general pattern? \_\_\_\_\_

2. How many stars should go in Card 3? \_\_\_\_\_

3. How did you solve the problem?

**4**. Suppose you were asked to draw Card 4. Use the general pattern and substitution to demonstrate what Card 4 will look like.

#### mBook Reinforce Understanding

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