



## Additional Practice 1-3

### Decimals to Thousandths

#### Another Look!

Patterns can help you read and write decimals.

Decimal	Fraction	Number Name
0.1	$\frac{1}{10}$	One tenth
0.01	$\frac{1}{100}$	One hundredth
0.001	$\frac{1}{1,000}$	One thousandth

0.01 is 10 times as great as 0.001.

0.01 is  $\frac{1}{10}$  as great as 0.1.

0.1 is 10 times as great as 0.01.

The value of each place-value position is 10 times the value of the place to its right and  $\frac{1}{10}$  the value of the place to its left.



1. 0.08 is 10 times as great as \_\_\_\_\_.

2. 0.002 is  $\frac{1}{10}$  of \_\_\_\_\_.

3. 0.5 is 10 times as great as \_\_\_\_\_.

4. 0.07 is  $\frac{1}{10}$  of \_\_\_\_\_.

In **5–12**, write each decimal as a fraction.

5. 0.009

6. 0.105

7. 0.2

8. 0.025

9. 0.563

10. 0.31

11. 0.6

12. 0.004

In **13–20**, write each fraction as a decimal.

13.  $\frac{8}{1,000}$

14.  $\frac{63}{100}$

15.  $\frac{984}{1,000}$

16.  $\frac{29}{1,000}$

17.  $\frac{111}{1,000}$

18.  $\frac{3}{10}$

19.  $\frac{6}{1,000}$

20.  $\frac{5}{1,000}$



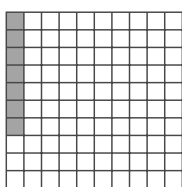
**21. Number Sense** Tommy is beginning a science experiment in the lab. The instructions call for 0.322 kilogram of potassium. Write 0.322 as a fraction.

**22.** Mt. McKinley is the highest mountain peak in North America with an elevation of 20,320 feet. What is the value of the digit 3 in 20,320?

**23. Construct Arguments** Jorge said that 0.029 can be written as  $\frac{29}{100}$ . Is he correct? Explain.

**24.** The area of the continent of North America is about 9,540,000 square miles. Write 9,540,000 in expanded form using exponents to show powers of 10.

**25.** What part of the entire square is shaded? Write your answer as a fraction and as a decimal.



**26. Higher Order Thinking** Write the fractions  $\frac{5}{10}$ ,  $\frac{5}{100}$ , and  $\frac{5}{1,000}$  as decimals. How are the decimals related?

**27. Vocabulary** Complete the sentence using one of the words below.

**power   base   exponent**

The number 1,000,000 is a(n) \_\_\_\_\_ of 10.

**28. Algebra** In three months, Harold watched a total of 40 movies. If he watched 12 movies in June and 13 movies in July, how many movies did he watch in August? Write an equation using the variable  $a$  to model your work.



### Assessment Practice

**29.** 0.003 is  $\frac{1}{10}$  of which decimal?

- (A) 0.3
- (B) 0.03
- (C) 0.33
- (D) 0.333

**30.** 0.8 is 10 times as great as which decimal?

- (A) 0.08
- (B) 0.88
- (C) 0.008
- (D) 0.888