# **Decimal Place Value**

#### Standard

Number & Operations in Base Ten Understand the place value system.

**5.NBT.1** Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.

5.NBT.3 Read, write, and compare decimals to thousandths.

a) Read and write decimals to thousandths using base-ten numerals, number names, and expanded form.

#### Model the Skill

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	2	4	4 ( )	3		

- Draw a place value chart on the board.
- Say: Look at the place value chart. How many places are shown on this chart? (6) Which place is the greatest? (hundreds) Point out the decimal point and explain that three places are to the left of the decimal point and three places are to the right of the decimal point.
- Ask: How does the tens place compare to the ones place? (The tens place is 10 times more than the ones place.) Explain that each place is 1/10 of the place to its left—the tenths place is 1/10 of the ones place. Have students write the number "one hundred four and thirty-eight hundredths" in the place value chart. Point out that and indicates there is a fraction of a number, or a decimal amount, that follows the whole number portion.
- Ask: How do we write one hundred four in the place value chart? (1 in the hundreds, 0 in the tens, and 4 in the ones) How do we write thirty-eight hundredths in the place value chart? (3 in the tenths place, 8 in the hundredths place) Demonstrate how to use the numbers written in the chart to write the standard form. (104.38) Have students look at the standard form and say the number aloud, making sure that it matches the word form.
- Assign students the appropriate practice page(s) to support their understanding of the skill.

## Assess the Skill

Use the following problems to pre-/post-assess students' understanding of the skill.

	hundreds tens ones . tenths hund	redths thousandths			
Ð	standard form: 24.76	<b>5</b>			
,	expanded form:				
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2	standard form: 21.035	na Processione de Processione en esta de la seu entre de la colonia de la companya de la colonia de la colonia			
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	expanded form:				
	written form:				
<b>5</b>	standard form:				
. <sup>3</sup> !	expanded form:				
	written form: three hundred five and five tenths				
6	standard form:				
	expanded form:				
	written form: seven hundred eighteen and twelve thousandths				
72)	standard form:				
	expanded form: $90 + 9 + \frac{8}{10} + \frac{3}{100}$	N/A			
	written form:				
8	300.4	от приметать в выправления на примета на при Примета на примета на п			
	expanded form:				
	written form:				

	Standard Form	Expanded Form	Written Form
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		$30 + 5 + \frac{2}{10}$	
	ting the second	$4 + \frac{5}{10} + \frac{7}{100} + \frac{9}{1,000}$	
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	206.047		
The state of the s	74.21	en e	
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The second secon	the substitute of the	n normana na seus seus semana esta esta esta se	twenty and sixty-two hundredths
All the second s	e a come de la companya de la compa	ter for de succession de suivisio de successionis, so de succession de succession de succession de succession	ninety-five and - four-tenths
4	. Control was served in the se	$600 + 5 + \frac{3}{100}$	e de la companya de l

four-tenths in standard form.

Write 10.7 in written form.

Write seven hundred one and onethousandth in standard form.

- 6 Write 200 + 50 + 7 +  $\frac{5}{10}$  +  $\frac{7}{100}$  +  $\frac{2}{1,000}$  in written form.
- Write nine hundred one and seventy-five thousandths in expanded form.

Which of the following shows nine

hundred and fifty-two thousandths

### Circle the letter for the correct answer.

Which of the following shows 17.201 in expanded form?

**a)** 
$$17 + \frac{2}{10} + \frac{0}{100} + \frac{1}{1,000}$$

**b)** seventeen and two hundred and one thousandths

**c)** 
$$10 + 7 + \frac{2}{10} + \frac{1}{1,000}$$

- **a)** 952,000 **b)** 900.52
  - **c)** 950.052

in standard form?

**d)** 900.052

d) seventeen and two-tenths and

trial the second number. The first two have been done for you.

**(5)** 

400 (>) 0.04

200 (<) 2,000 3

3 0.09 ( ) 90

10,000 times greater

10,000 ( ) 100,000

10 times less

60()0.6 0.008 ( ) 0.8

0.02()20

**8** 600 ( ) 0.6

9,000 9

0.01()1 10

 $\bigcirc$ 

30 ( ) 0.003

6,000 ( ) 6

0.007

0.2()2,000 14)

0.08 15) 80