

Name _____

Comparing and Ordering Decimals

P 2-2

Use $>$, $<$, or $=$ to compare each pair of numbers.

1. 656.07 656.23 2. 73.42 72.56
 3. 0.01 0.10 4. 7.999 7.998

Order from least to greatest.

5. 639.087, 639.078, 638.088
- _____

6. 0.0909, 0.0989, 0.0999
- _____

7. 19.235, 19.23, 19.240, 19.2353
- _____

8. Order the lung volumes from least to greatest.

Animal (adult)	Lung Volume (in quarts)
Cat	0.328
Cow	10.565
Mouse	0.001
Whale	105.65

9. Which animal has a lung volume that is greater than a cow's?
- _____

10. Which two animals have the closest lung volume?
- _____

Test Prep

11. Which decimal is greater than 3.33 but less than 3.34?
 A. 2.3349 B. 3.305 C. 3.329 D. 3.336
12. **Writing in Math** Explain how to find a number that is between 4.9 and 4.95.
- _____
- _____

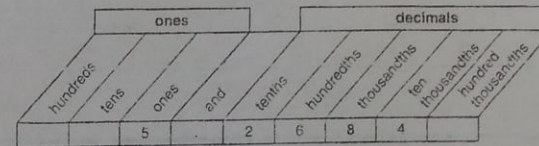
Use with Lesson 2-2. 19

Name _____

Understanding Decimals

R 2-1

A decimal is a number that uses a decimal point. Each digit in a decimal number has a place and value. You can use a place-value chart to determine a digit's place and value.



The 8 is in the thousandths place. Its value is 8 thousandths, or 0.008.

The standard form of the number is 5.2684. The word form is five and two thousand, six hundred eighty-four ten thousandths.

The expanded form is: _____ + 0.2 + 0.06 + _____ + 0.0004.

Give the place and value of the 9 in each number.

1. 2.195 _____
 2. 6.2394 _____
 3. 34.92629 _____

Complete the table.

Standard Form	Short-Word Form	Expanded Form
4. 2.346	2 and 346 thousandths	
5. _____		1 + 0.6 + 0.0009

6. **Number Sense** Express $\frac{8}{10}$, $\frac{8}{100}$, and $\frac{8}{10,000}$ as decimal numbers.
- _____

7. **Writing in Math** Explain how you know that 17 thousandths has more than two places to the right of the decimal point.
- _____
- _____

18 Use with Lesson 2-1.

Name _____

Understanding Decimals

P 2-1

Give the place and value of the 3 in each number.

- 56.389 _____
- 9.6431 _____
- 0.72536 _____

Complete the table.

Standard Form	Short-Word Form	Expanded Form
4.	2 and 3 hundredths	
5.		$70 + 8 + 0.4 + 0.06$

6. **Number Sense** Express $\frac{4}{10}$, $\frac{44}{100}$, and $\frac{444}{1,000}$ as decimal numbers.

Write the total number of points for each event in expanded form.

7. team

Event	Winning Points
Team	154.608
All-around	38.642
Uneven bars	9.862

8. all-around

9. uneven bars

Test Prep

10. Which shows the short-word form for 16.011?
- A. 16 and 11 thousandths B. 16 and 11 hundredths
 C. 16 and 11 tenths D. 16 + 0.011
11. **Writing in Math** Explain how to determine the place and value of a number.

Name _____

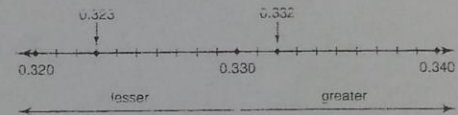
Comparing and Ordering Decimals

R 2-2

Use a number line

Remember, as you move to the right on a number line, the numbers are greater in value. As you move to the left, the numbers are lesser in value.

Compare 0.332 and 0.323.



Since 0.332 is to the right of 0.323, $0.332 > 0.323$.

Align the digits

Order 3.27, 4.86, 3.09, and 3.85 from least to greatest.

- Start at the left and compare digits in the same place value.
- Order the digits by place value.

Order ones.	Order tenths.
3.27	3.09
3.09	3.27
3.85	3.85
4.86	4.86

In order from least to greatest, the numbers are:

Use $>$, $<$, or $=$ to compare each pair of numbers.

- 3.030 ○ 3.03
- 9.3226 ○ 9.3262
- 1.39292 ○ 13.9232
- 0.135 ○ 0.0135

Order from least to greatest.

- 23.4 24.4 24.34 _____
- 16.03 16.30 16.003 _____
- 2.5021 2.00251 2.05021 2.00502 _____
- Writing in Math** Explain why 37.75 is greater than 37.07.

