



Name _____ Date _____

Comparing and Ordering Decimals

(pages 105–108)

You can compare decimals by comparing the digits in each place-value position or by placing the decimals on a number line. Recall that $<$ means *less than* and $>$ means *greater than*.

Comparing Decimals

Line up the decimal points of the two numbers you want to compare. Then starting at the left, compare the digits in the same place-value position. When you come to a place where the digits are not equal, the decimal with the greater digit is the greater decimal number. On a number line, numbers to the right are greater than numbers to the left.

EXAMPLES

- A** Which number is greater, 1.09 or 1.9?

$$\begin{array}{r} 1.09 \\ 1.9 \end{array}$$

The digits are the same in the ones place but the second number has a greater digit in the tenths place, so 1.9 is the greater number.

$$1.9 > 1.09$$

- B** Order these numbers from least to greatest: 21.98, 24.03, 2.4, 2.198.

$$\begin{array}{r} 21.98 \\ 24.03 \\ 2.4 \\ 2.198 \end{array}$$

$$2.198, 2.4, 21.98, 24.03$$

Try These Together

1. Which of these numbers is to the left of 4.5 on a number line: 40.5 or 4.05?

HINT: Which number is less than 4.5?

2. Order these numbers from greatest to least: 0.01, 0.002, 0.02.

HINT: You can also look at hundredths as money. Which is greater, 2 cents or 1 cent?

PRACTICE

State the greater number in each pair.

3. 0.41 or 0.45

4. 1.8 or 1.6

5. 8.25 or 8.31

6. 46.85 or 46.96

7. 0.06 or 0.61

8. 0.78 or 0.45

9. 1.363 or 1.367

10. 458.6 or 458.4

11. 1.03 or 1.01

Order each set of decimals from least to greatest.

12. 1.81

13. 12.56

14. 456.9

1.75

12.58

455.8

1.78

12.36

455.4

1.83

12.41

456.3

15. Which is the greatest, 5.06, 5.60, or 5.006?



- 16. Standardized Test Practice** Which of these numbers is the smallest: 4.015, 4.014, 4.018, or 4.011?

A 4.011

B 4.014

C 4.018

D 4.015

Answers: 1. 4.05 2. 0.02, 0.01, 0.002 3. 0.45 4. 1.8 5. 8.31 6. 46.96 7. 0.61 8. 0.78 9. 1.367 10. 458.6 11. 1.03 12. 1.75, 1.78, 1.81, 1.83 13. 12.36, 12.41, 12.56, 12.58 14. 455.4, 455.8, 456.3, 456.9 15. 5.60 16. A