3–2 Comparing and Ordering Decimals

MAIN IDEA
- Compare and order decimals.

BUILD YOUR VOCABULARY (page 56)

An **inequality** is a mathematical sentence indicating that two quantities are not [ ].

EXAMPLE **Compare Decimals**

1 **BASEBALL** **The table below lists the final winning percents for several American League baseball teams in a recent year. Use > or < to compare New York's percent with Cleveland's percent.**

Team	Percent Standing
New York	0.594
Boston	0.509
Cleveland	0.562
Detroit	0.407

METHOD 1 Use place value.

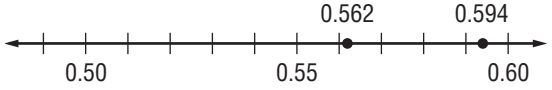
First, line up the decimal points.

New York: 0.594
Cleveland: 0.562

Then, starting at the left, find the first place the digits differ. Compare the digits.

Since 9 > [ ], 0.594 > [ ].

METHOD 2 Use a number line.



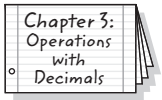
Numbers to the right are greater than numbers to the left.

Since 0.594 is to the [ ] of 0.562, 0.594 > [ ].

FOLDABLES

ORGANIZE IT

Under Lesson 3-2 of your Foldable, describe two ways to compare decimals. Be sure to include examples.



Check Your Progress **EXAMS** In Mr. Smith's math class, 29.65% of the students earned a grade of "A" at the end of the semester. In Mrs. Dempsey's class, 29.85% of the students earned a grade of "A" at the end of the semester. Use > or < to compare the percent in Mr. Smith's class with the percent in Mrs. Dempsey's class.

BUILD YOUR VOCABULARY (page 56)

Decimals that name _____ are called **equivalent decimals**.

EXAMPLE **Order Decimals**

2 **Order 25, 25.1, 24.36, and 25.03 from least to greatest.**

First, line up the decimal points.

25 → 25.00
25.1 → 25.10
24.36 → 24.36
25.03 → 25.03

Next, annex zeros so that all numbers have the same final place value.

Finally, compare and order using place value.

The order from least to greatest is 24.36, _____, 25.03, and _____.

REMEMBER IT

To check the reasonableness of the order of the numbers, you can use a number line.

Check Your Progress Order 71, 71.04, 70.89, and 71.4 from least to greatest.

HOMEWORK ASSIGNMENT

Page(s):

Exercises: