5.5 Compare and Order Rational Numbers (6.NS.6, 6.NS.6c, 6.NS.7, 6.NS.7a and 6.NS.7b)

Compare Decimal and Fractions

Positive and negative numbers can be represented on a number line.
You can use a number line to help you compare and order rational numbers.

It is also helpful to write each rational number into the same form. For example write all numbers in their decimal form. Then, compare them.

Guided Practice

Fill in each ________ with <, >, or = to make a true statement.

1.) 9.7 $>$ -10.3

2.) $\frac{5}{8}$ $>$ $-\frac{3}{8}$

3.) -6.7 $=$ $-6\frac{7}{10}$ -6.7

4.) $-\frac{5}{6}$ $>$ -0.94 $-0.8\overline{3}$

Order the following sets of number from least to greatest.

5.) $\{-3\frac{1}{3}, 3.3, -3\frac{3}{4}, 3.5\}$

$-3.\overline{3}$ 3.3 -3.75 3.5

$-3\frac{3}{4}, -3\frac{1}{3}, 3.3, 3.5$

6.) $\{2.\overline{1}, -2.1, 2\frac{1}{11}, -2\}$

Partner Talk

Steve recorded these amounts in his checkbook: -\$6.50, \$7.00, -\$6.75, and \$7.25
Order these amount from least to greatest.

-\$6.75, -\$6.50, \$7.00, \$7.25

Building on the Essential Question -How can a number line help in ordering rational numbers?

Greater numbers are farther to the right.

Rate yourself

Are you ready to move on? Shade the section that applies.

YES ? NO ← Rate yourself!