Name_____ Class_____ Date_____

**Reteaching 1-5**                                                    **Rational Numbers**
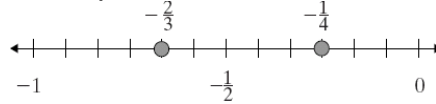
A **<u>rational number</u>** is a number that can be written as a quotient of two integers, where the divisor is not zero.  A negative rational number can be written in three different ways.

$$-\frac{2}{3} = \frac{-2}{3} = \frac{2}{-3}$$

**Comparing Negative Rational Numbers**

Compare $-\frac{2}{3}$ and $-\frac{1}{4}$.

**Method 1** Use a number line. Graph both points on a number line and see which is farther to the left.



Since $-\frac{2}{3}$ is farther to the left, $-\frac{2}{3} < -\frac{1}{4}$.

**Method 2** Use the lowest common denominator.

$$-\frac{2}{3} = \frac{-2}{3} = \frac{-2 \times 4}{3 \times 4} = \frac{-8}{12}$$

$$-\frac{1}{4} = \frac{-1}{4} = \frac{-1 \times 3}{4 \times 3} = \frac{-3}{12}$$

Since $\frac{-8}{12} < \frac{-3}{12}$, then $-\frac{2}{3} < -\frac{1}{4}$.

..................................................................................................................................................

**Compare. Use <, >, or =.**

1. 4/9 _____ 2/3

2. -1 _____ -4/5

3. -7/8 _____ -1/8

4. -1/3 _____ -5/6

5. -2/5 _____ -1/10

6. -2/8_____ -1/4

**Order from least to greatest.**

7. $-\frac{1}{3}, 0.3, -0.35, -\frac{3}{10}$

8. $\frac{1}{5}, -0.25, 0.21, \frac{3}{10}$

_____          _____

9. You and your brother invested an equal amount of money in a college savings plan. In the last quarter your investment was worth $1\frac{5}{6}$ of its original value. Your brother's investment was worth 1.85 of its original value. Whose investment is worth more? _____