Lesson 2.1c **Comparing Rational Numbers**

EQ: How do we **COMPARE** rational numbers?

COMPARING DECIMALS

We can use this method to see which decimals are bigger:

- 1. Using the Decimal Comparison Paper, write each decimal number being compared with the decimal point in the same place for each.
- 2. Fill in empty squares with zeros.
- 3. Compare the numbers, beginning with the first column on the left, one column at a time.
- 4. If the digits being compared are equal, move to the next column to the right until one number is greater.
- 5. The first decimal number with a GREATER digit is the GREATER decimal number.

Example 1

Example 2

Compare 1.56 and 1.506 Compare 145.89 and 145.889

Therefore,

1.506

Therefore,

145.89

2.1c cont'd COMPARING FRACTIONS

IF fractions have the **SAME denominator** (bottom number):

- 1. COMPARE the numerators. (Top Number)
- 2. The Fraction with the GREATER NUMERATOR (top number) is the GREATER fraction.

Example 1

7 is greater than 5

Therefore, $\frac{5}{9}$ $\frac{7}{9}$

Example 2

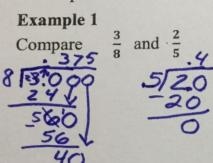
Compare $\frac{5}{9}$ and $\frac{7}{9}$ Compare $\frac{35}{100}$ and $\frac{18}{100}$

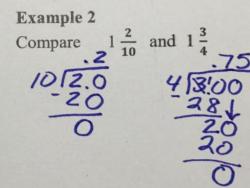
35 is greater than 18

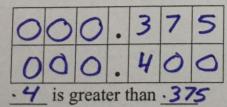
Therefore, $\frac{35}{100} > \frac{18}{100}$

IF fractions have DIFFERENT denominators (bottom number):

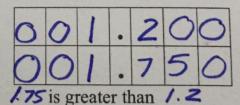
- 1. Turn the fractions into DECIMALS by dividing the NUMERATOR (top) by the DENOMINATOR (bottom).
- 2. Compare as DECIMALS (see comparing decimals notes).







Therefore, $\frac{3}{8} \leq \frac{2}{5}$



Therefore, $1\frac{2}{10}$