

## 5<sup>th</sup> Grade Math Week #2: Number Operations in Base Ten

Comparing Decimals:

# Comparing & Ordering Decimals

All numbers have value. You can compare the value of two number by using the following symbols:

<b>Greater Than</b> <b>&gt;</b>	<b>Less Than</b> <b>&lt;</b>	<b>Equal To</b> <b>=</b>
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Follow these steps to compare two numbers.

**Step 1: Line up the numbers according to place value.**

12.4  
12.39

**Step 2: Compare the numbers in each place starting with the largest.**

Start here

1 = 1

2 = 2

4 is more than 3

So.....

12.4 is greater than 12.39

largest.  
12.4  
12.39

**Step 3: Use the symbols to show the relationship between the two numbers**

**12.4 > 12.39**

12.4 is greater than 12.39

**To order a group of numbers, you complete steps 1-3 with more than 2 numbers.**

Start here

3 = 3

4 is more than 3 (3.45 is the greatest)

9 is greater than nothing (3.39 is next largest)

So.....

3.45 is greater than 3.39 which is greater than 3.3

3.45  
3.39  
3.3

Multiply Decimals:

**To multiply decimals:**

1. Line the numbers up on the right. (You do not need to line up the decimal points!)
2. Multiply with the same routine you use with whole numbers.
3. Add up how many decimal places are in each number.
4. Start at the right of your answer and move the number of places equal to the sum of decimal places.

**Example:**

$$\begin{array}{r} 7.41 \\ \times 8.2 \\ \hline 1482 \\ + 59280 \\ \hline 60.762 \end{array}$$



Divide Decimals:

**To divide decimals, it's important to get rid of the decimal point from the number we are dividing by.**

- Multiply the divisor by as many 10's as necessary to get a whole number.
- Multiply the dividend by the same number of 10's.

**Example:**

$$\begin{array}{r} 22.1 \\ 3.5 \overline{) 77.35} \\ \underline{-77.0} \phantom{0} \\ 3.5 \\ \underline{3.5} \\ 0 \end{array}$$

