Math 9			Name:			
3.1 – What is a Rational Number?			Date:			
Ex. 1: Convert the following decimals to fractions, in simplified form:						
a. 0.7	b. 10.25	c. 0.3	d. 8.5	e. $2.\overline{18}$		
Ex. 2: Convert the following fractions to decimals:						
a. $\frac{3}{10}$	b. $\frac{125}{100}$	c. $\frac{5}{9}$	d. $3\frac{2}{7}$	e. $-2\frac{3}{5}$		

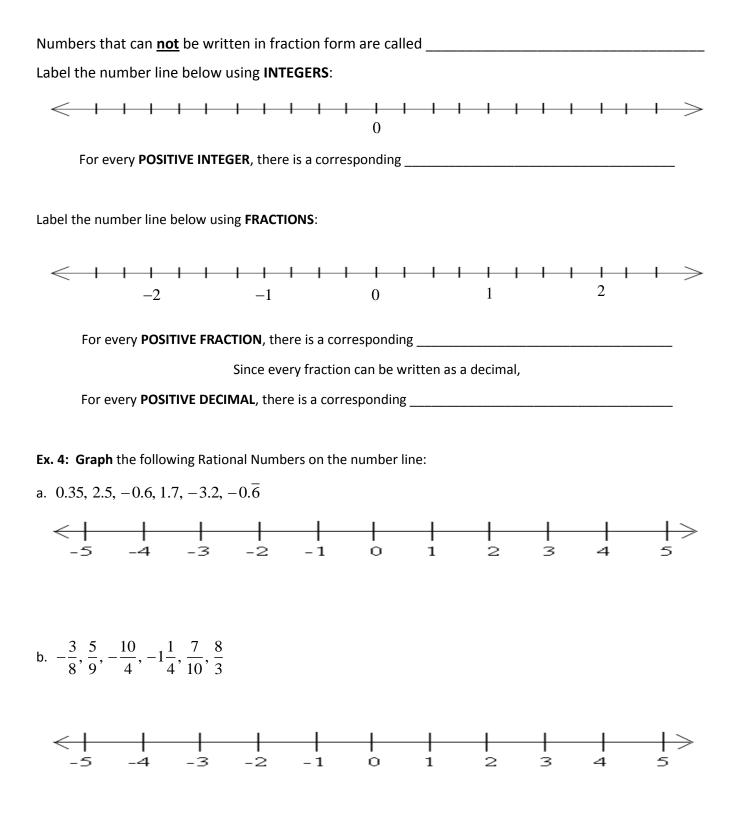
Ex. 3: Determine the values of the following quotients. What do you notice?

a. $\frac{-2}{10}$ b. $\frac{2}{-20}$ c. $-\frac{2}{20}$

A **Rational Number** is any number that can be written as a **FRACTION**, like: $\frac{m}{n}$ where, *m* and *n* are both **integers** and $n \neq 0$

Are the following numbers Rational Numbers or not?

Integers and Fractions	Terminating Decimals	Repeating Decimals	
4	0.9	0.3	$0.\overline{1}$
-3	0.45	0.38	$0.\overline{108}$
$2\frac{3}{5}$	4.3	1.4	



Ex. 5: Write 3 rational numbers between each pair of numbers and graph on a number line:

a. 1.25 and -3.26 b. -0.25 and -0.26 c. $-\frac{1}{2}$ and $\frac{1}{4}$

d. $-\frac{1}{2}$ and $-\frac{1}{4}$

Ex. 6: Order the following numbers from **least** to **greatest**: 0.65, 2.8, -0.7, -3.24, $-0.\overline{7}$

Ex. 7: Order the following numbers from **greatest** to **least**: $-\frac{3}{8}, \frac{5}{9}, \frac{10}{-4}, -1\frac{1}{4}, \frac{7}{10}, \frac{8}{3}$