

## 1-2 Properties of Real Numbers

## Directed Notes

Objectives:

- To classify, graph, and order real numbers.
- To identify properties of real numbers

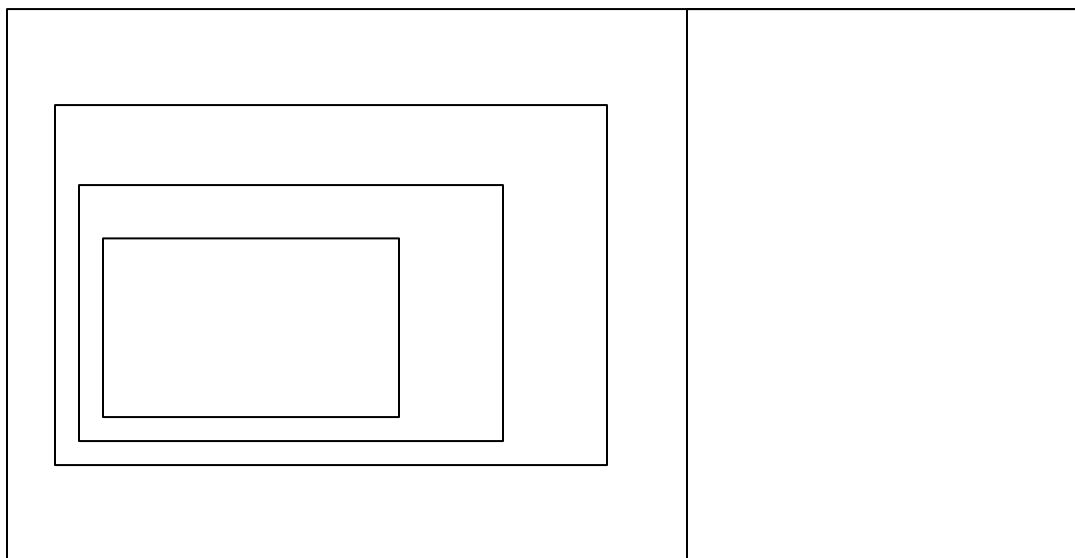
1.) What is the mathematical term for Opposite \_\_\_\_\_  
Give an example

2.) What is another name for the reciprocal? \_\_\_\_\_  
Give an example

What number does not have a reciprocal?

The Real Number System:

3.) Fill in the graphic organizer with different classifications of numbers: Natural, Whole, Integer, Rational, Irrational, and Real

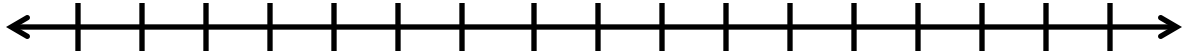


4.) Give a student-friendly definition of each set of numbers and give four examples of each.

Definition	Set of Numbers	Examples
	<b>Natural</b>	
	<b>Whole</b>	
	<b>Integers</b>	
	<b>Rational</b>	
	<b>Irrational</b>	

5.) Classify and graph the following numbers on the number line

$$3, -2.5, \frac{17}{5}, \sqrt{23}, -\frac{4}{3}, |-5|$$



6.) Fill in the table

Property	Addition	Multiplication
	If $a$ and $b$ are real numbers then $a + b$ is a real number	
Commutative		$ab = ba$
	$(a + b) + c = a + (b + c)$	
Identity		
Inverse		
	$a(b + c) = ab + ac$	