	Date:					
Notes						
	ra Section 2.1 64-70					
Ü	Goal: "Graph and compare positive and negative numbers" "Classify numbers as whole, integer, and rational" "Understand and apply absolute value and opposites"					
Vocab	oulary:					
Whole	e Numbers:					
Intege	ers:					
Ration	nal Numbers:					
Classi Classi	fying: fy the following numbers using all	names that apply.				
a) 5	b) 0.6	c) -7	d) $-2\frac{2}{3}$	e) -24		
Compa	aring: are using: $>$, $<$, \ge , \le , or $=$ (fill in the number line where are larger num number line where are smaller numb	bers located?				
Ex: -1	17 14	Ex: -22_	15			
Ex: 5.	2 5.2003	Ex: 0.31 _	0.301			
Helpf	ul Hints when Comparing:					
*	numbers are always	S				
	n comparing two negative number ly bigger.	rs the one with the smaller _		is		
	n comparing decimals (positive or	9				
*To co	ompare fractions, you need a		·			
* To co	ompare fractions to decimals and	vice versa, make both	or both			

Ordering

Order the following from least to greatest, then classify each number using all of the names that apply.

Ex: 4.5,
$$-\frac{3}{4}$$
, -2.1, 0.5

Ex:
$$\frac{1}{6}$$
, 1.75, $-\frac{2}{3}$, 0

Ex: The apparent magnitude of a star is its brightness as observed from Earth. The greater the magnitude, the dimmer the star. Order the stars from brightest to dimmest.

Star	Arcturus	Sirius	Vega
Magnitude	-0.6	-1.47	0.03

Vocabulary:

Opposites: _____

Absolute Value: _____

Example:

The opposite of 8 is -8. The absolute value of 8 is 8.

The opposite of -9 is 9. The absolute value of -9 is 9.

Try These:

	-a (opposite of)	a (absolute value)
<i>a</i> = −2.5		
$x = \frac{3}{4}$		
$y = \frac{3}{8}$		
b = -0.6		