Lesson #13 Review of Number Lines.

Complete the following questions on loose-leaf. Once you have finished, correct using my answer key.

Name:_	
Date :_	

I. Explain the difference between R and Z.

·	R	Z
Symbol: for		
Definition:		
Looks like what on a		
number line		

II. Our little tricks! Remember that they only work when the variable is on the left[®].

1110 10 1 0 ·	
≥ >	
< <	
≤ ≥	
< >	
R	
Z	

III. Show the following inequalities on number lines:

		_	 _	_		-	 	-	
1.	$x \rightarrow -4$, $x \in \mathbb{R}$					'	'		,

3.
$$x \le 12$$
, $x \in \mathbb{R}$

2.
$$x < 4, x \in \mathbb{R}$$

3. $x \le 12, x \in \mathbb{R}$
4. $-2 \ge x, x \in \mathbb{R}$
5. $x > 14, x \in \mathbb{Z}$
6. $x > -8, x \in \mathbb{R}$

5.
$$x > 14$$
 $x \in Z$

- 8. $x \le 23, x \in \mathbb{R}$
- 9. $x \ge 7$, $x \in \mathbb{R}$
- 10. x > -15, x∈R [←]

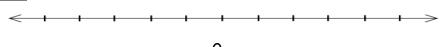
IV. Write out the following inequality using words.

1. x > -4, x∈R _____

V. True or false? If the statement is false, correct it.

- 1. -10 is less than -50.
- 2. π is an integer.
- 3. All integers are real numbers.
- 4. ≤ means less than or equal to.
- 5. Integers do not contain decimals.

VI. Place the following in order from least to greatest on the number line.



a. -10 b. 15 c. -100 d. -55 e. 25 f. -56

Correct your answers using my answer key below.

