Name:
 Date:
 Per.:

 LT Pre Test

**Directions:** Show what you know about the following topic by completing the problems below. Make sure to show all work.

1. Define the following words:
proportional relationship –
unit rate –
slope –
2. What is a non-vertical line?
What is the coordinate plane?
3. Define the sollowing words:
Derive –
Origin
Origin –
Intercent -
Intercept –

different proportional relationships represented in different ways. 3. Draw a number line and do the following things: 1. Number your number line from 0 to 10 counting by 1's. 2. Demonstrate 2 + 3 and 10 - 6 on the number line. (2.MD.6) 4. Consider the following fraction:  $\frac{1}{8}$ 5. Rewrite the following fractions as decimals. Place this fraction on the number line below: a.  $\frac{2}{10} =$ 1 b.  $\frac{7}{100} =$ Split the number line into equal eighths and label each part. c.  $\frac{47}{100} =$ What is the size of each segment on the number line? • Draw another number line and label the location of the • following fractions:  $\frac{1}{3}$ ,  $\frac{1}{6}$ ,  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{7}{6}$  and  $\frac{10}{2}$ d.  $\frac{125}{100} =$ (3.NF.6) (4.NF.6) 6. Draw a coordinate plane and label the x-axis from 0 to 10 counting by one's and label the y-axis 0 to 20 counting by two's. Then place and label the following points on your coordinate plane: (0, 3) (1, 5) (6, 5) (2, 8) (10, 12) (8, 20)(5.G.1)

CSS: Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two

7. You are shopping for produce at the Farmer's Market. The Farmer's Market is having a huge last weekend sale and all the farms have a deal of 1 bag for produce costs \$5. Make a graph showing the cost for filling up 1 bag, 2 bags, 3 bags, etc until you reach 10 bags. Under your graph write an sentence about what a point (x,y) means on your graph.		
	(5.G.2)	
8. a. Order the following rational number in order from	9. a. Place the six numbers from question 8a on the number line below. Don't forget to label the numbers.	
smallest to largest. $0, \frac{2}{3}, -\frac{5}{4}, 0.25,  -5 , -5 $	$\bullet \qquad \bullet$	
b. If I give you the statement -3 < -1 what does that mean about the relationship between those two numbers on a number line?	b. Draw a 4-quadrant coordinate grid and place the following ordered pairs on the coordinate plane (don't forget labels): (-1, 5) (6, 2) (-5, -9) (3, -7) (-5, 2) (1, 10) (0, 5) (-7, 0) (-8, -10) (4, -2)	
(6.NS.7a)	(6.NS.6c)	



