Name:
 _______ Date:
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 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:

 linear model –

 slope –

 y-intercept –

 bivariate data –

 2. Make a number line numbered 0 through 15 counting by 1's.

| On the number line show the addition problem $5 + 7$ and the subtraction problem $15 - 8$. |
|---|
|---|

3. Make a number line and label the following fractions on them: $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, and \frac{1}{5}$

4. Explain how you placed the four fractions on the number line above.

(3.NF.2)

5. Now make a number line and label $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, and $\frac{5}{5}$.

(3.NF.2)

(2.MD.6)

(3.NF.2)





13. Carli's class built some solar-powered robots. They raced the robots in the parking lot of the school. The graphs below are all line segments that show the distance *d*, in meters, that each of three robots traveled after *t* seconds.

- 1. Each graph has a point labeled. What does the point tell you about how far that robot has traveled?
- 2. Carli said that the ratio between the number of seconds each robot travels and the number of meters it has traveled is constant. Is she correct? Explain.



3. How fast is each robot traveling? How did you compute this from the graph

