Date _____

Lesson 10: A Critical Look at Proportional Relationships

Exit Ticket

Alex skateboards at a constant speed from his house to school 3.8 miles away. It takes him 18 minutes.

a. What fraction represents his constant speed, *C*?

b. After school, Alex skateboards at the same constant speed to his friend's house. It takes him 10 minutes. Write the fraction that represents constant speed, *C*, if he travels a distance of *y*.

c. Write the fractions from parts (a) and (b) as a proportion, and solve to find out how many miles Alex's friend's house is from school. Round your answer to the tenths place.



Lesson 11: Constant Rate

Exit Ticket

Vicky reads at a constant rate. She can read 5 pages in 9 minutes. We want to know how many pages, p, Vicky can read after t minutes.

a. Write a linear equation in two variables that represents the number of pages Vicky reads in any given time interval.

b. Complete the table below. Use a calculator, and round answers to the tenths place.

<i>t</i> (time in minutes)	Linear Equation:	p (pages read)
0		
20		
40		
60		

c. About how long would it take Vicky to read 25 pages? Explain.



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Lesson 12: Linear Equations in Two Variables

Exit Ticket

- 1. Is the point (1, 3) a solution to the linear equation 5x 9y = 32? Explain.
- 2. Find three solutions for the linear equation 4x 3y = 1, and plot the solutions as points on a coordinate plane.

x	Linear Equation: $4x - 3y = 1$	у		+									+
			-										T
			_										t
			-										t
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Lesson 13: The Graph of a Linear Equation in Two Variables

Exit Ticket

1. Ethan found solutions to the linear equation 3x - y = 8 and graphed them. What shape is the graph of the linear equation taking?



2. Could the following points be on the graph of -x + 2y = 5?





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Lesson 14: The Graph of a Linear Equation—Horizontal and Vertical Lines

Exit Ticket

1. Graph the linear equation ax + by = c, where a = 0, b = 1, and c = 1.5.





3. What linear equation represents the graph of the line that coincides with the *x*-axis?

4. What linear equation represents the graph of the line that coincides with the *y*-axis?

