$\qquad$

## 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.

Name $\qquad$ Date $\qquad$

## 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.

| $\boldsymbol{t}$ (time in minutes) | Linear Equation: | $\boldsymbol{p}$ (pages read) |
| :---: | :--- | :--- |
| 0 |  |  |
| 20 |  |  |
| 40 |  |  |
| 60 |  |  |

c. About how long would it take Vicky to read 25 pages? Explain.
$\qquad$ Date $\qquad$

## Lesson 12: Linear Equations in Two Variables

## Exit Ticket

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

| $\boldsymbol{x}$ | Linear Equation: <br> $4 x-3 y=1$ | $\boldsymbol{y}$ |
| :--- | :---: | :---: |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |


$\qquad$ Date $\qquad$

## Lesson 13: The Graph of a Linear Equation in Two Variables

## Exit Ticket

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

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

$\qquad$

## Lesson 14: The Graph of a Linear Equation-Horizontal and

## Vertical Lines

## Exit Ticket

1. Graph the linear equation $a x+b y=c$, where $a=0, b=1$, and $c=1.5$.

2. Graph the linear equation $a x+b y=c$, where $a=1, b=0$, and $c=-\frac{5}{2}$.

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?
