

Investigating Methods for Solving Linear Equations and Inequalities

Name:

Date:

Vocabulary Review:

In your own words, define each of the following vocabulary terms.

- Equation
- Inequality
- Linear Relationship
- Ordered Pair

Apply New Learning:

1. When is an ordered pair a solution to a linear equation or inequality?

2. Determine whether each ordered pair is a solution for the equation $y = 8 - 4x$.

- a. (8, 0)
- b. (16, -2)
- c. (3, -4)

3. Determine whether each ordered pair is a solution for the equation $2y - 5x < 2$.

- a. (-3, 3)
- b. (1, 5)
- c. (3, 3)

4. How can a table or graph be used to determine if an ordered pair is a solution to a linear equation or inequality?

5. Use the table feature on your graphing calculator to determine if $(2, 7)$ is a solution to $y = 4x - 1$.

6. Use a graph to determine if $(-3, 8)$ is a solution to $12 = 2x + 3y$.

7. Use a graph to determine if $(5, 5)$ is a solution to $y \geq -3x + 4$.