Guided Notes 7.3: Linear Inequalities in Two Variables

A. The _____ of an inequality in two variables is one or more ordered pairs that make the inequality true.

B. Graph each linear inequality.

1. $\mathbf{3x + 5y \geq 30}$

2. $\mathbf{-14 + 2y < -x}$

C. Write a linear inequality to represent the information.

Elijah can spend at most $8.25 on snacks for a party. Carrots cost $2.00 per bag and grapes cost $0.75 per bag.

D. Write a linear inequality to model this situation.

The slope of the line is _____.

The y-intercept is _____.

The boundary line is y = _____.

The boundary line on the graph is _____ and the shaded region is _____ the graph, so the symbol will be _____.

The inequality is _____.