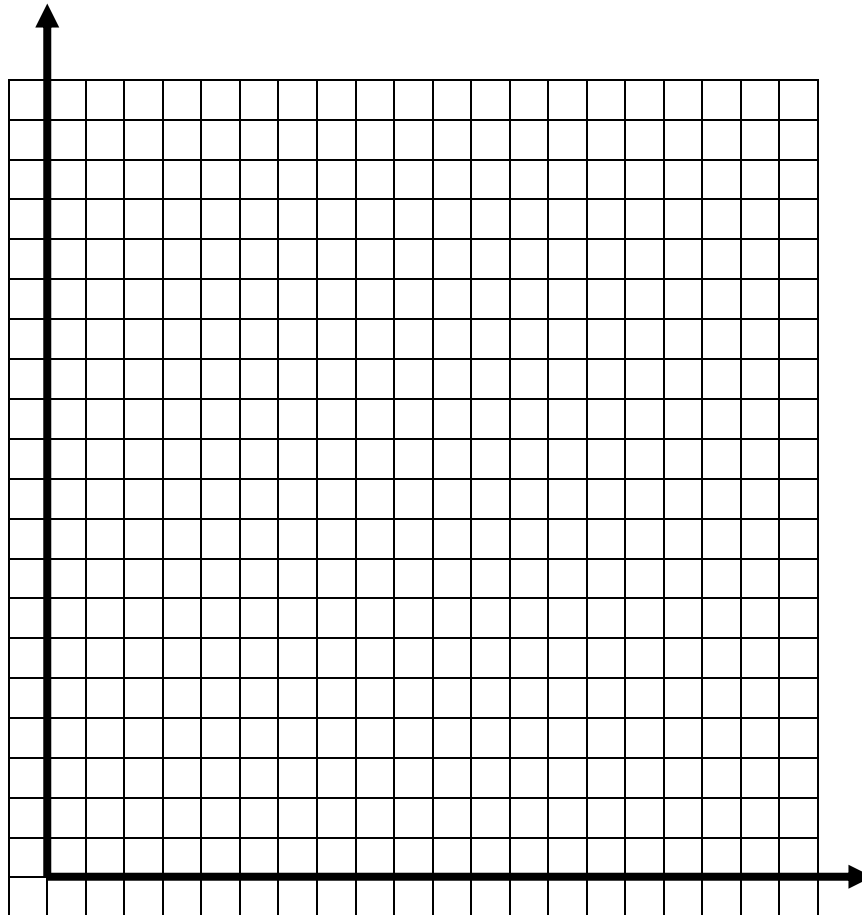Name _____ Variable Inequalities Home/Classwork

1. You tutor Spanish for $15 per hour and French for $10 per hour. You want to earn at least $100 per week.

   a. Write an inequality that describes your goal in terms of hours spent tutoring Spanish and French. Remember to label your variables.
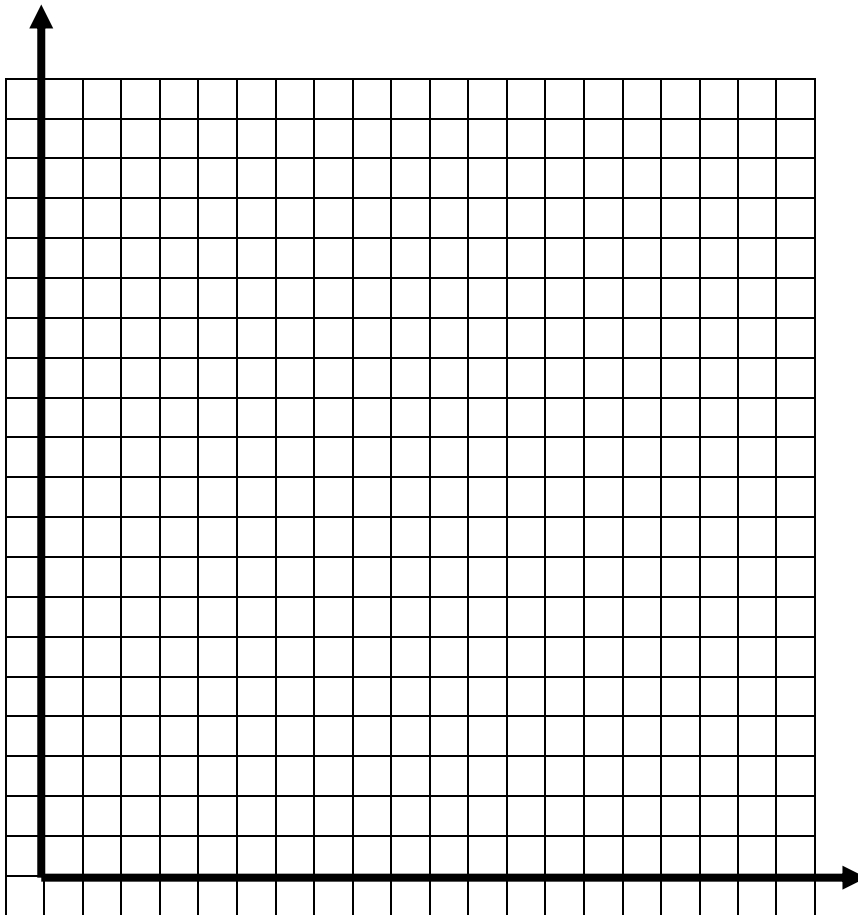
   b. Graph the inequality. Then give three possible combinations of hours that meet your goal.

2. You are making muffins and loaves of bread for a bake sale. You need $\frac{1}{6}$ batch of batter per muffin and $\frac{1}{2}$ batch of batter per loaf of bread. You have enough ingredients to make up to 12 batches of batter.

a. Write and graph an inequality modeling the situation.

b. Identify three possible combinations of muffin and bread batches you could make for the bake sale.

c. Identify the domain and range.