1.3A BINGO

Name: hey

Directions: Pick three squares. Write a system of inequalities to represent the constraints (restrictions) of the situation.

You are grocery shopping and plan to buy some fruit. An apple costs \$2 and a banana costs \$1.

A: # of apples
B: # of bananas

- You have to buy at least 3 apples.
- You want at least 2 bananas.
- You buy at most 8 items.

$$a \ge 3$$

 $b \ge 2$
 $a + b \le 8$

Your family is going to the movies and you are buying the tickets. An adult ticket costs \$6 and a child ticket costs \$4.

A: # of adult tickets C: # of child tickets

- You have to buy at least 2 adult tickets.
- You have to buy at least 4 child tickets.
- You can spend at most \$60.

You have a piñata with Kit Kats and Reeses at your birthday party.

K: # of Kit Kats R: # of Reeses

• There are at most 70 candies in the piñata.

Lydia has a coin jar with just dimes and quarters.

D: # of dimes Q: # of quarters

• There are at most 100 coins in the jar.

The local gym charges a fee for playing a club sport. Basketball costs \$2 per week and soccer costs \$3 per week.

B: # of weeks playing basketball S: # of weeks playing soccer

- You can play no more than 4 weeks of basketball.
- You can play at least 2 weeks of soccer.
- You want to spend at most \$30.

You have two jobs and want to save some money. You make \$7 per hour raking leaves and \$9 per hour babysitting.

R: # of hours raking leaves
B: # of hours babysitting at most

- You can only work 14 hours per week.
- You want to save at least \$40.

You are trying to raise money for a school play and want to sell cookie dough. Chocolate chip dough costs \$10 per tub and snickerdoodle dough costs \$12 per tub.

C: # of tubs of chocolate chip dough S: # of tubs of snickerdoodle dough

- You want to sell at least 4 chocolate chip tubs.
- You want to sell at least 5 snickerdoodle tubs.

A pie contains raspberries and blueberries.

R: # of pounds of raspberries B: # of pounds of blueberries

 There are at most 4 pounds of raspberries and blueberries in the pie.

Michael has an iTunes gift card and wants to buy some music and TV shows. Music costs \$1 per song and TV shows cost \$3 per show.

S: # of songs T: # of TV shows

- He wants to buy at least 3 songs.
- He wants to buy at most 4 shows.
- He spends no more than \$20.

$$S \ge 3$$
 $T \le 4$