Card Sort: Representations of Inequalities

situation

- A jar contains only nickels and dimes.
- There is no more than $6 in the jar.
- x represents the number of nickels and y represents the number of dimes in the jar.

Card Sort: Representations of Inequalities

situation

- The length of a rectangle is represented by x and its width is represented by y.
- The perimeter of the rectangle is greater than 240 units.

Card Sort: Representations of Inequalities

inequality

$$y \geq 100$$

Card Sort: Representations of Inequalities

inequality

$$4x + 3y \geq 240$$

Card Sort: Representations of Inequalities

a solution

$$(80, 30)$$

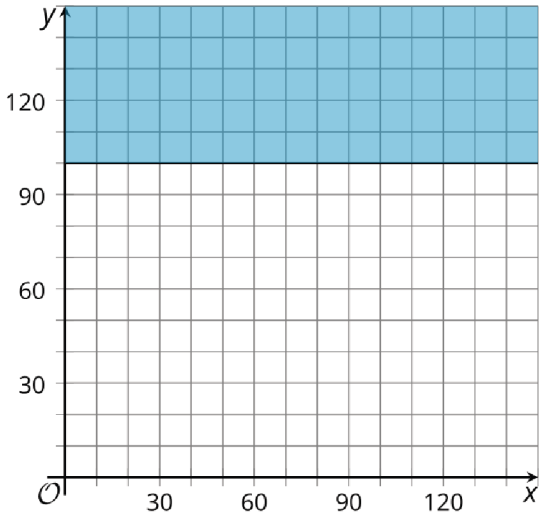
Card Sort: Representations of Inequalities

a solution

$$(20, 50)$$

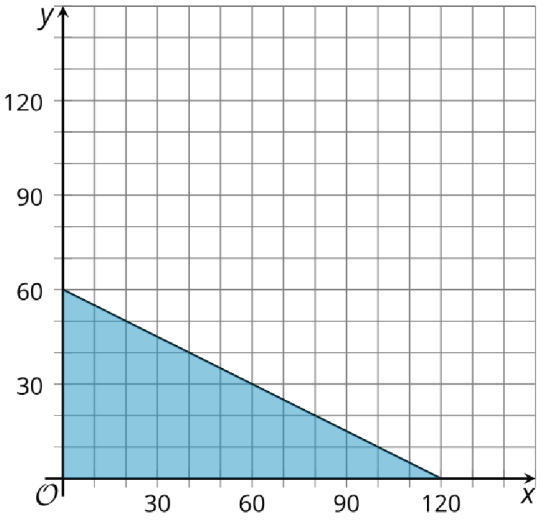
Card Sort: Representations of Inequalities

graph



Card Sort: Representations of Inequalities

graph



Card Sort: Representations of Inequalities
situation

- A seller at the Saturday market sells honey and jam. He wants to make at least $240 profit this Saturday.
- He makes $4 profit for each jar of honey he sells and $3 profit for each jar of jam.
- *x* represents the number of jars of honey he sells and *y* represents the number of jars of jam.

Card Sort: Representations of Inequalities
situation

- A school is organizing a service trip. Students and teachers can sign up to go.
- *x* represents the number of teachers who sign up and *y* represents the number of students.
- The trip will only take place if at least 100 students sign up.

Card Sort: Representations of Inequalities
inequality

$$0.05x + 0.10y \leq 6.00$$

Card Sort: Representations of Inequalities
inequality

$$2x + 2y > 240$$

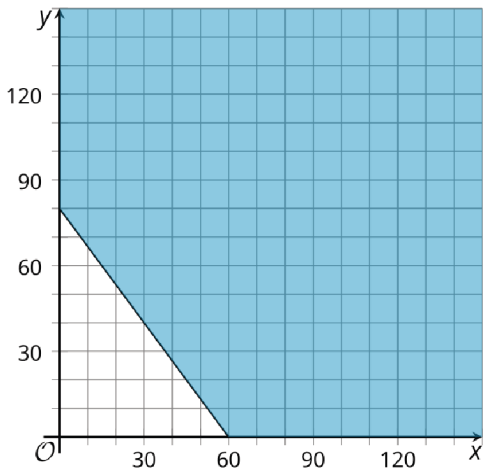
Card Sort: Representations of Inequalities
a solution

$$(80, 50)$$

Card Sort: Representations of Inequalities
a solution

$$(20, 100)$$

Card Sort: Representations of Inequalities
graph



Card Sort: Representations of Inequalities
graph

