

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.

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### 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.

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### inequality

$$y \geq 100$$

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### inequality

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

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### a solution

$$(80, 30)$$

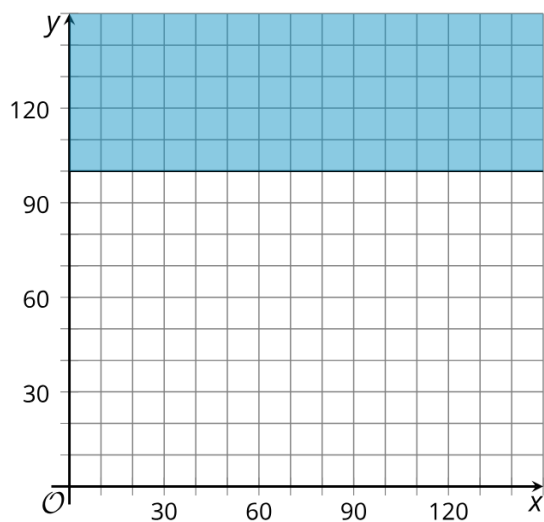
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### a solution

$$(20, 50)$$

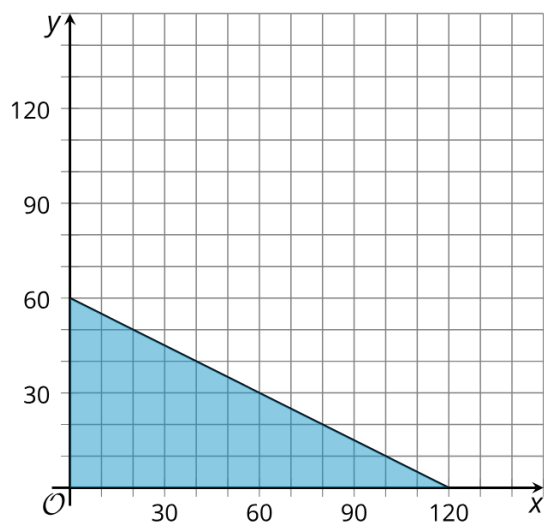
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### graph



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### 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

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

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inequality

$$2x + 2y > 240$$

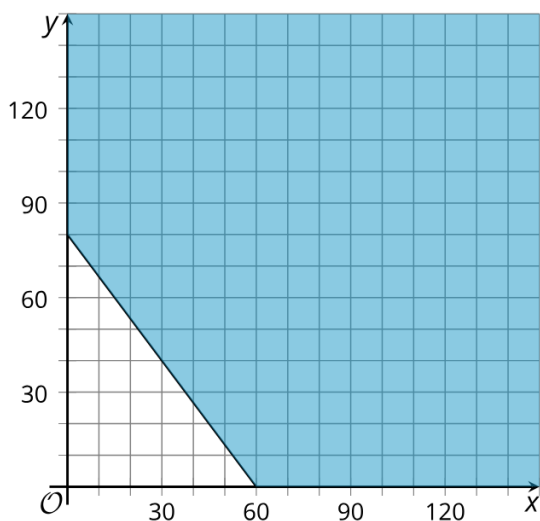
Card Sort: Representations of Inequalities  
a solution

$$(80, 50)$$

Card Sort: Representations of Inequalities  
a solution

$$(20, 100)$$

Card Sort: Representations of Inequalities  
graph



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graph

