

Name:

Answers!

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

You have nickels, x , and quarters, y . You have 8 or more coins combined. The coins have a value of not more than \$0.60.

Part A Write an inequality representing the number of coins you could have.

$$x + y \geq 8$$

Part B Write an inequality representing the value of the coins.

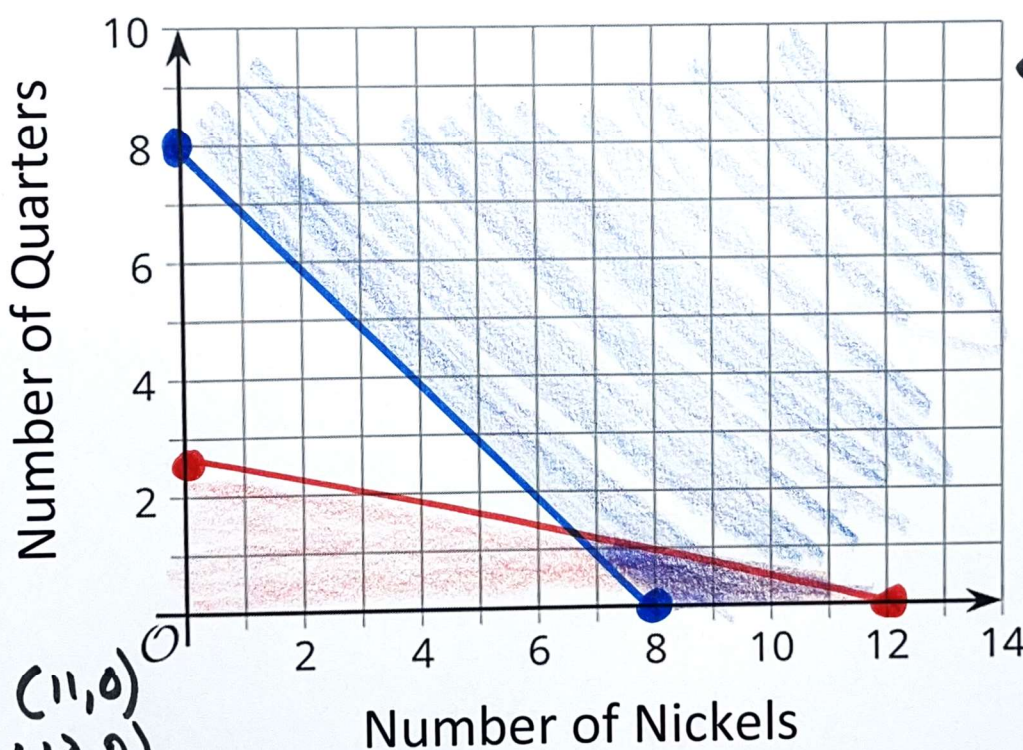
$$5x + 25y \leq 60$$

Part C Graph the inequalities.

find zeroes $(8,0)$ & $(0,8)$

Part D What are some of the options?

find zeroes $(12,0)$ & $(0,2.4)$



↑ annoying!

- $(8,0)$ $(11,0)$
- $(9,0)$ $(12,0)$
- $(10,0)$ $(7,1)$

works!

$$5(7) + 25(1) \leq 60$$

$$35 + 25 \leq 60$$

Question 02

You are buying laptop stickers and water bottles as door prizes for community fundraiser. The laptop stickers, x , cost \$5 each and the water bottles, y , cost \$8 each. Your budget is \$120. You need at least 18 door prizes.

Part A Write an inequality representing the number of door prizes you can buy. $x + y \geq 18$

Part B Write an inequality representing the budget. $5x + 8y \leq 120$

Part C Graph the inequalities. $(18, 0)$ & $(0, 18)$ $(24, 0)$ & $(0, 15)$

Part D What are some of your options?

lots!

$(16, 4)$
 $(18, 3)$

