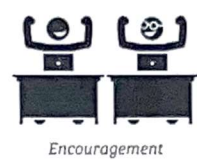


Name: **ANSWERS!** Class:



Question 01

You are making custom scarves, x , and t-shirts, y , to sell for a charity raffle. You have enough material to make 8 items or less. You are selling the scarves for \$10 and the t-shirts for \$20. You want to raise at least \$100.

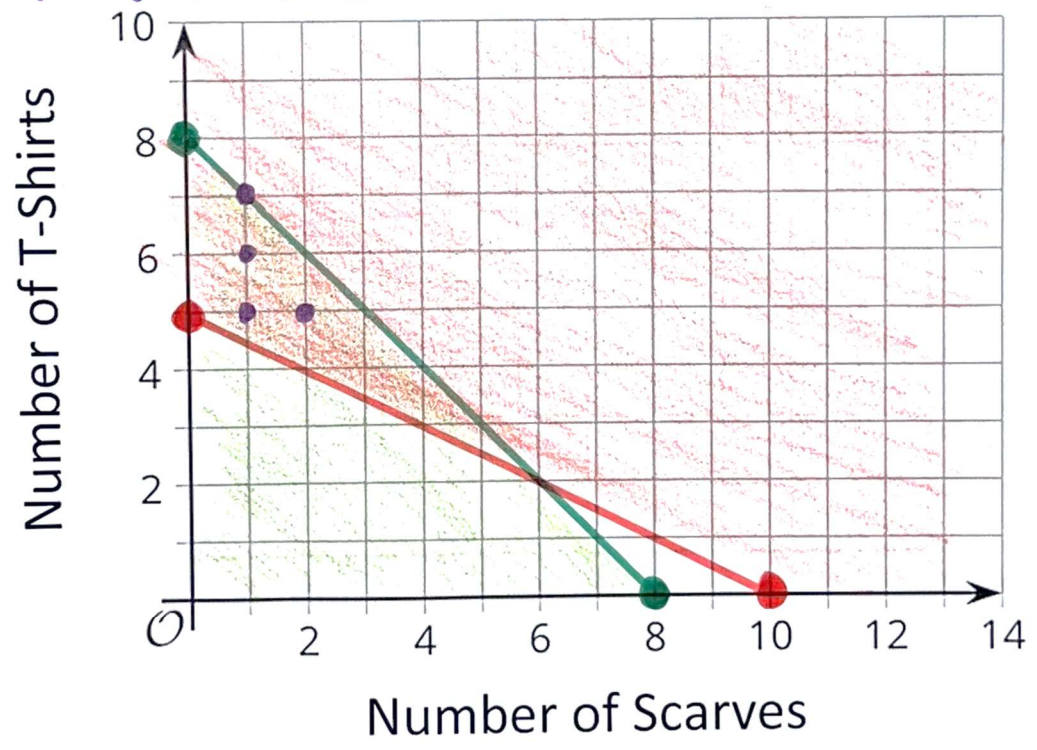
Part A Write an inequality representing the number of items you have the material to make. $x + y \leq 8$

Part B Write an inequality representing the money you aim to raise.

$10x + 20y \geq 100$

Part C Graph the inequalities.

Part D What are some of the options?
 $(1,5)$ $(1,6)$ $(1,7)$ $(2,5)$ and more!



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!

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

