

Name: ANSWERS! Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

To qualify for a loan from a bank, you need at least \$500 combined in your checking account and your savings account.

Part A Write an inequality with x representing the amount in your checking account and y representing the amount in your savings account.

Part B Select all coordinates below that could be solutions.

- 1) (200, 400) = 600 Yes!
- 2) (100, 300) = 400 No.
- 3) (250, 250) = 500 Yes!
- 4) (700, 0) = 700 Yes!
- 5) (150, 150) = 300 No.

$$x + y \geq 500$$

↑ More is OK!

Question 02

Your goal is to have revenues of at least \$500. You are selling t-shirts for \$15 each and hats for \$18 each.

Part A Write an inequality with x representing the amount of t-shirts you sell and y representing the amount of hats you sell.

Part B Select all coordinates below that could be solutions.

- 1) $(20, 10) = 300 + 180$ No.
- 2) $(20, 15) = 300 + 270$ Yes!
- 3) $(10, 20) = 150 + 360$ Yes!
- 4) $(15, 15) = 225 + 270$ No.
- 5) $(100, 100) = 1500 + 1800$ Woah!
- $15x + 18y \geq 500$

↑
Goal means more is OK!

Question 03

Tickets to a show cost \$12 for adults and \$6 for children. Your theatre group has a budget of \$300 to purchase tickets for the show.

Part A Write an inequality with x representing the amount of adult tickets you could purchase and y representing the amount of child tickets you could purchase.

Part B Select all coordinates below that could be solutions.

- 1) $(10, 30) = 120 + 180$ Yes!
- 2) $(25, 10) = 300 + 60$ No.
- 3) $(12, 25) = 144 + 150$ Yes!
- 4) $(23, 4) = 276 + 24$ Yes!
- 5) $(100, 100) = 1200 + 600$ NO WAY!
- $12x + 6y \leq 300$

~
Budget means up to \$300.