

Name: **ANSWERS!**

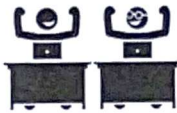
Class:



Communication



Successful Partnership



Encouragement

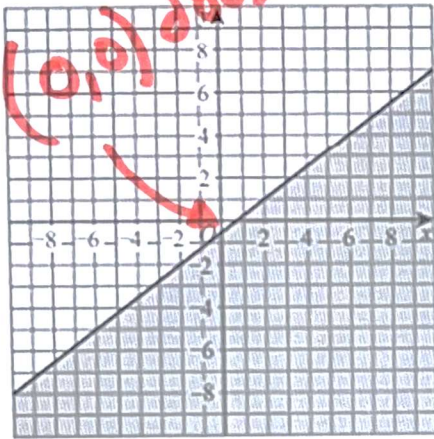


Solving Problem Together



Collaboration

Question 01

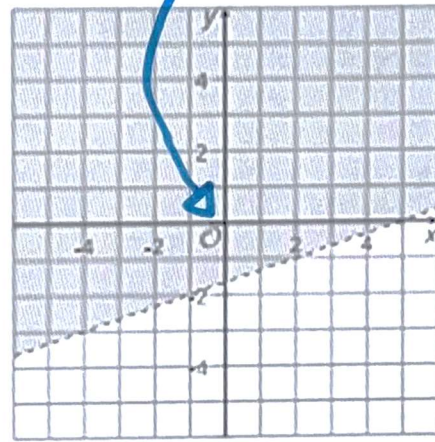


Which equation below matches the graph?

- (a) $3x - 4y \leq 2$ (b) $3x - 4y \geq 2$ (c) $3x - 4y < 2$ (d) $3x - 4y > 2$
- ↑ ↑
- NO NO

(0,0) does NOT work

Question 02



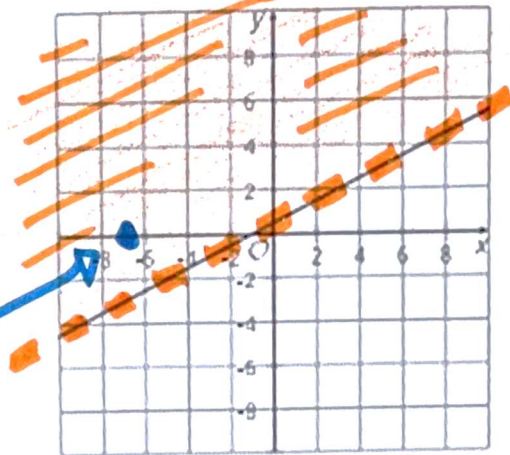
Which equation below matches the graph?

- (a) $x - 3y \leq 5$ (b) $x - 3y \geq 5$ (c) $x - 3y < 5$ (d) $x - 3y > 5$
- ↑ ↑
- NO NO

(0,0) does work

Question 03

To the right is the graph for the equation $y = \frac{1}{2}x + \frac{1}{2}$.



Part A

Lightly shade the solution to the inequality $y > \frac{1}{2}x + \frac{1}{2}$.

Part B

Select all sets of coordinates that satisfy the inequality.

- | | | | | | |
|------------------------------------|-------------|-------------|------------------------------------|-------------|--------------------|
| (a) | (b) | (c) | (d) | (e) | (f) |
| $(0, \frac{1}{2})$ | $(-7, 0)$ | $(-7, -10)$ | $(-7, -3)$ | $(-20, 0)$ | $(0, \frac{2}{3})$ |
| | <i>Yes!</i> | | <i>No!</i> | <i>Yes!</i> | <i>Yes!</i> |
| <i>No!</i> | | | <i>ON Line does not work here!</i> | | |
| <i>ON Line does not work here!</i> | | | | | |

Question 04

Select all sets of coordinates that satisfy the inequality $5x + 9y < 45$.

- | | | | | | |
|------------------------------------|---------------------------------|-------------------------------------|--------------------|--|--|
| (a) | (b) | (c) | (d) | (e) | (f) |
| $(0, 0)$ | $(0, 5)$ | $(5, 0)$ | $(5, 9)$ | $(10, -2)$ | $(\frac{2}{3}, \frac{1}{6})$ |
| <i>Yes!</i> | | <i>Yes!</i> | | <i>Yes!</i> | |
| $5(0) + 9(0) < 45$
$0 + 0 < 45$ | | $5(5) + 9(0) < 45$
$25 + 0 < 45$ | | $5(10) + 9(-2) < 45$
$50 - 18 < 45$ | |
| <i>yes!</i> | | <i>yes!</i> | | <i>yes!</i> | |
| | $5(0) + 9(5) < 45$
$45 < 45$ | | $5(5) + 9(9) < 45$ | | $5(\frac{2}{3}) + 9(\frac{1}{6}) < 45$ |
| | <i>No!</i> | | <i>No!</i> | | <i>Yes!</i> |