

2.22.16

er uses a forklift to move boxes that weigh either 40 pounds or 65 pounds each. Let x be the number of 40 pound boxes and y be the number of 65 pound boxes. The forklift can carry up to either 45 boxes or less than or equal to 45 boxes. Which of the following systems of inequalities represents this relationship?

Total

$$x + 65y \leq 2400$$

$$y \leq 45$$

$$x + 65y \leq 45$$

$$y \leq 2400$$

x y

x -plane, if $(0, 0)$ is a solution to the system of inequalities below, which of the following relations between a and b must be true?

$$y < -x + a$$

$$y > x + b$$

$0 < 0 + a$ $0 < a$ or

$0 > 0 + b$ $0 > b$ $n \neq 1$

- B) $b > a$

- C) $|a| > |b|$

- D) $a = -b$