

NAME

QUARTER

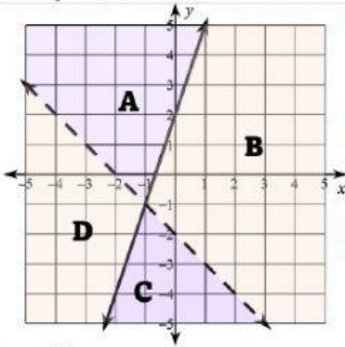
GRADE &amp; SECTION

DATE

**Activity: Graphing System of Linear Inequalities in Two Variables**

Given the system of linear inequality, determine what region should be shaded to represent the solution.

1. 
$$\begin{cases} y > -x - 2 \\ y \geq 3x + 2 \end{cases}$$

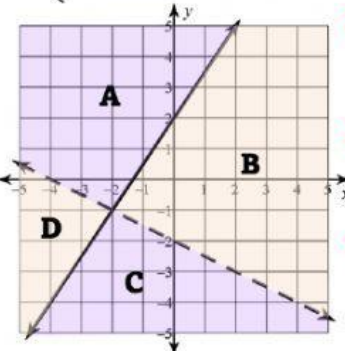


1.1 What regions contain the solution to the inequality  $y > -x - 2$ ?

1.2 What regions contain the solution to the inequality  $y \geq 3x + 2$ ?

1.3 What region contains the solution to the system?

2. 
$$\begin{cases} y \leq \frac{3}{2}x + 2 \\ y > -\frac{1}{2}x - 2 \end{cases}$$

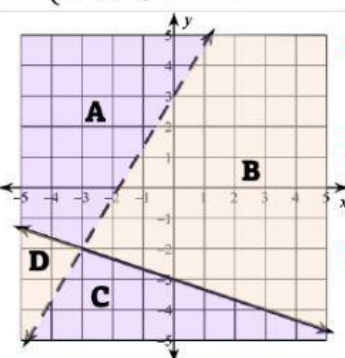


2.1 What regions contain the solution to the inequality  $y \leq \frac{3}{2}x + 2$ ?

2.2 What regions contain the solution to the inequality  $y > -\frac{1}{2}x - 2$ ?

2.3 What region contains the solution to the system?

3. 
$$\begin{cases} 5x - 3y > -9 \\ x + 3y \leq -9 \end{cases}$$



3.1 What regions contain the solution to the inequality  $5x - 3y > -9$ ?

3.2 What regions contain the solution to the inequality  $x + 3y \leq -9$ ?

3.3 What region contains the solution to the system?

How many attempts? \_\_\_\_\_  
How well did you do?



Need help!



Just OK!



Splendid

I FEEL THAT: