

NAME

QUARTER

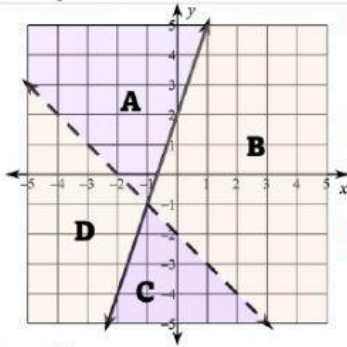
GRADE & SECTION

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

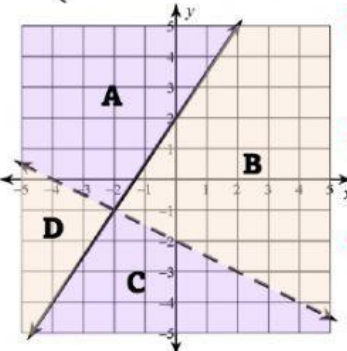


1.1 What regions contain the solution to the inequality $y > -x - 2$?

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

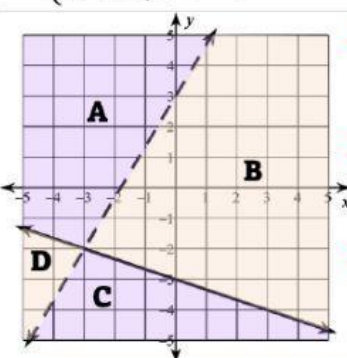


2.1 What regions contain the solution to the inequality $y \leq \frac{3}{2}x + 2$?

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: