

NAME \_\_\_\_\_

QUARTER \_\_\_\_\_

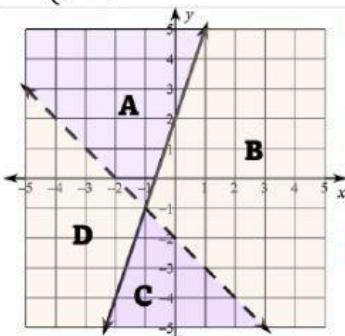
GRADE &amp; SECTION \_\_\_\_\_

DATE \_\_\_\_\_

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

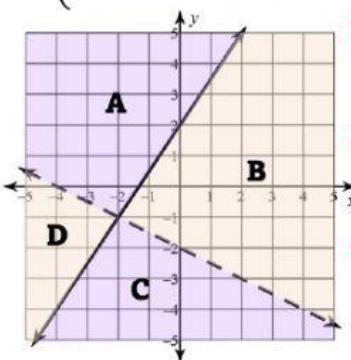
Given the system of linear inequality, determine what region should be shaded to represent the solution.

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  $y \geq 3x + 2$ ?

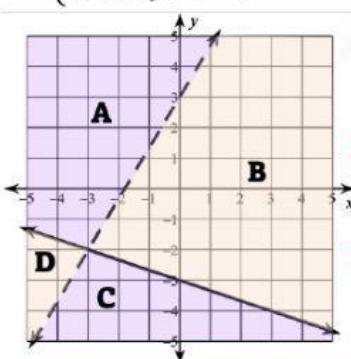
1.3 What region contains the solution to the system?

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: