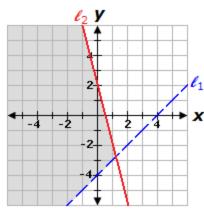
1. Which system of inequalities is represented by the graph below?



A.
$$\begin{cases} y < x - 4 \\ y \ge -4x + 2 \end{cases}$$

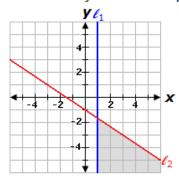
• A.
$$\begin{cases} y < x - 4 \\ y \ge -4x + 2 \end{cases}$$
 • C.
$$\begin{cases} y > x - 4 \\ y \le -\frac{1}{4}x + 2 \end{cases}$$

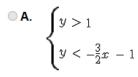
2.
$$\begin{cases} y \ge -\frac{1}{3}x + 3 \\ y > \frac{3}{4}x - 1 \end{cases}$$

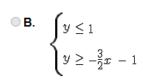
Which quadrants contain the solution to this system of inequalities?

- A. quadrants I, II, and IV
- B. quadrants I and II
- C. quadrants I and IV
- quadrants II and III D.

3. Which system of inequalities is

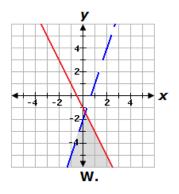


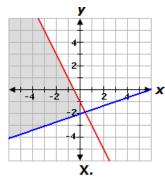


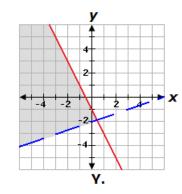


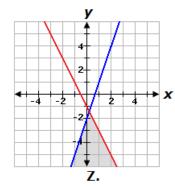
4. Which graph represents the following system of inequalities?

$$\begin{cases} y > \frac{1}{3}x - 2 \\ y \le -2x - 1 \end{cases}$$









5. Jenny is making jewelry for an arts and crafts show. She would like to make at least \$100 in sales. She estimates that she will sell at most 50 pieces of jewelry. The bracelets that she is selling cost \$2 and the necklaces cost \$3.

Which system of inequalities can be used to determine the number of bracelets (b) and the number of necklaces (n) she can sell?

$$\bigcirc$$
 A. $b + n \le 50$

$$2b + 3n \leq 100$$

 \circ **C**. $b+n \leq 50$

$$2b + 3n \ge 100$$

B.

$$b + n \le 50$$

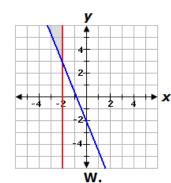
$$3b + 2n \ge 100$$

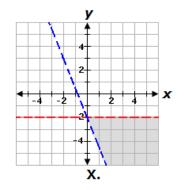
$$\bigcirc$$
 D. $b+n \leq 50$

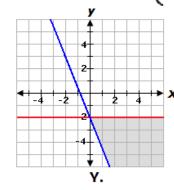
$$3b + 2n \le 100$$

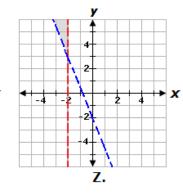
6. Which graph represents the following system of inequalities?

$$\begin{cases} y > -\frac{5}{2}x - 2 \\ y < -2 \end{cases}$$









7. Directions: Select the correct graph.

Liam is planning a banquet for his parent's anniversary with a budget of \$3,375 at a hotel ballroom. The venue can hold no more than 125 guests. The cost per adult is \$45 and the cost per child is \$15. Select the graph having the shaded region that represents possible number of guests that could attend the banquet within the budget.

