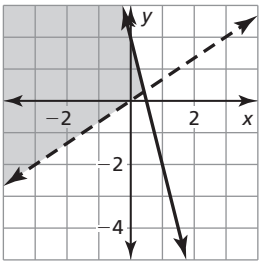
Name _____ Date _____

# 5.7 Practice A

**In Exercises 1–4, tell whether the ordered pair is a solution of the system of linear inequalities.**




**1.** $(2, 1)$

**2.** $(-3, -2)$

**3.** $(0, 2)$

**4.** $(-1, -4)$

**In Exercises 5 and 6, tell whether the ordered pair is a solution of the system of linear inequalities.**

**5.** $(2, -1)$; $y \geq 3$
$y < x + 1$

**6.** $(7, -4)$; $y < 0$
$y < x - 3$

**In Exercises 7–12, graph the system of linear inequalities.**

**7.** $y > 2$
$x < -3$

**8.** $y \geq 1$
$y < 4$

**9.** $y \geq -2x$
$y > 1$

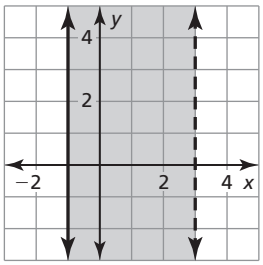
**10.** $y \leq x + 2$
$y > x - 2$

**11.** $y < 2x$
$y < x + 1$

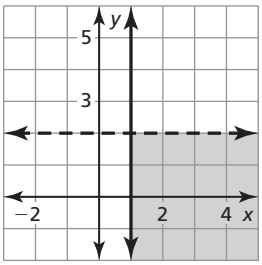
**12.** $3x + y \leq 0$
$-2x + y > -1$

**In Exercises 13 and 14, write a system of linear inequalities represented by the graph.**

**13.**




**14.**




**15.** You can spend at most \$60 on beads. A bag containing red beads costs \$2 per bag. A bag containing blue beads costs \$3 per bag. You need more bags of blue beads than bags of red beads.

**a.** Write and graph a system of linear inequalities that represents the situation.

**b.** Identify and interpret a solution of the system.

**c.** Use the graph to determine whether you can buy 9 bags of red beads and 12 bags of blue beads.