Name _____ Date _____

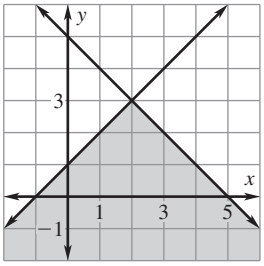
LESSON 6.6

Practice A

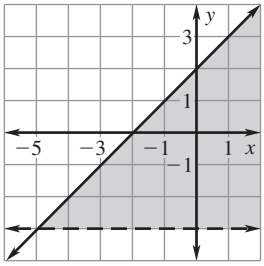
For use with the lesson "Solve Systems of Linear Inequalities"

Tell whether the ordered pair is a solution of the system of inequalities.

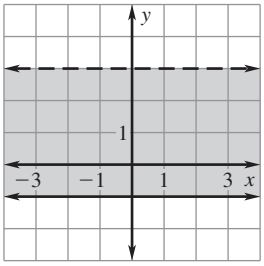
1. $(2, 1)$



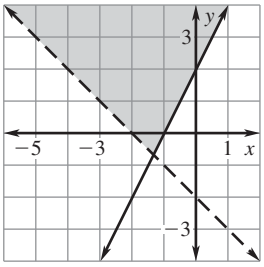
2. $(-3, 2)$



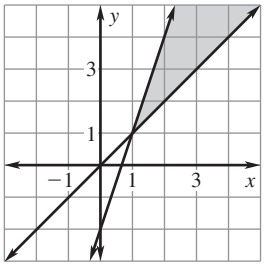
3. $(0, -1)$



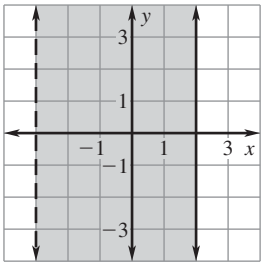
4. $(-2, 0)$



5. $(2, 4)$



6. $(-2, 3)$



Match the system of inequalities with its graph.

7. $x + y \geq 4$
$x < 2$

8. $x + y \leq 4$
$x < -2$

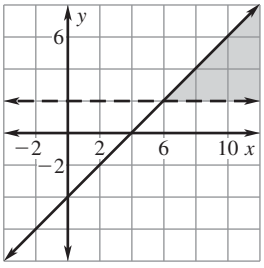
9. $x - y \geq 4$
$y > 2$

10. $y + x \leq 4$
$y < 2$

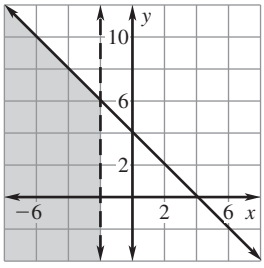
11. $x - y \leq 4$
$x > -2$

12. $y + x \geq 4$
$y < -2$

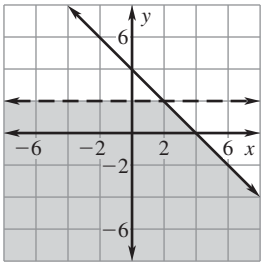
A.



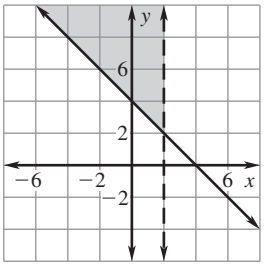
B.



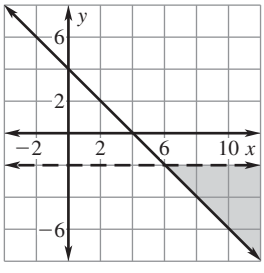
C.



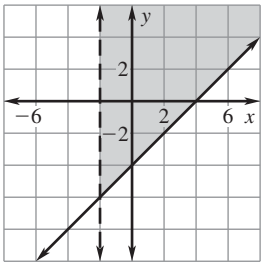
D.



E.



F.



Name _____ Date _____

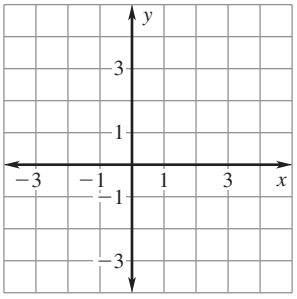
LESSON 6.6

Practice A *continued*

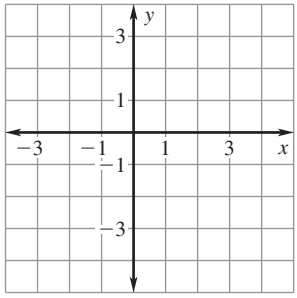
For use with the lesson "Solve Systems of Linear Inequalities"

Graph the system of inequalities.

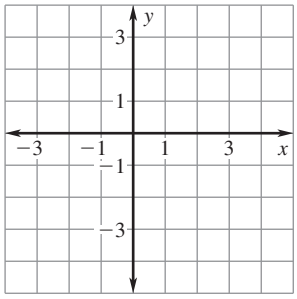
13. $x > -1$
$x < 4$



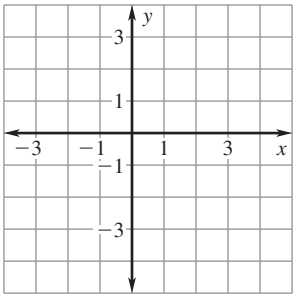
14. $y > -3$
$y \leq 0$



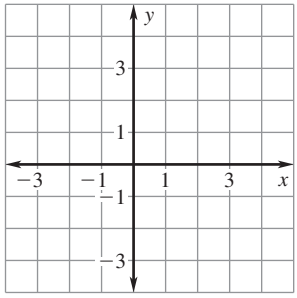
15. $x \geq 2$
$y > 0$



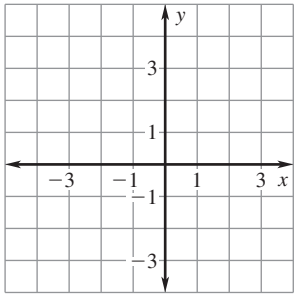
16. $x < 1$
$y \leq -2$



17. $x > 0$
$y \leq x$



18. $y \leq 3$
$y > -x$

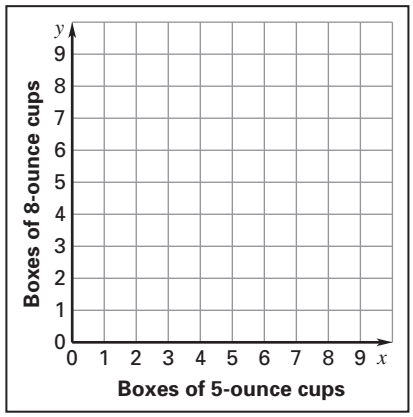


19. Ordering Cups You work at an Italian ice shop during the summer. You need to order 5-ounce and 8-ounce cups. The storage room will only hold 10 more boxes of cups. A box of 5-ounce cups costs $15 and a box of 8-ounce cups costs $18. A maximum of $90 is budgeted for cups.

a. Let x represent the number of boxes of 5-ounce cups and let y represent the number of boxes of 8-ounce cups. Write a system of linear inequalities for the number of cups that can be bought.

b. Graph the system of inequalities.

c. Identify two possible combinations of cups you can buy.



20. Studying You need at at least 4 hours to do your science and history homework. It is 1:00 P.M. on Sunday and your friend wants you to go to the movies at 7:00 P.M.

a. How much time do you have between now and 7:00 P.M. to do your homework?

b. Let x represent the number of hours spent on science homework and let y represent the number of hours spent on history homework. Write and graph a system of linear inequalities that shows the number of hours you can work on each subject if you go to the movies.