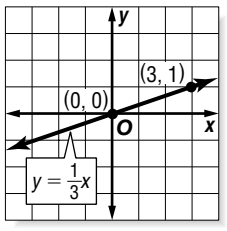
NAME _____ DATE _____ PERIOD _____

5-2 Skills Practice

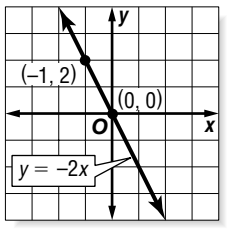
Slope and Direct Variation

Name the constant of variation for each equation. Then determine the slope of the line that passes through each pair of points.

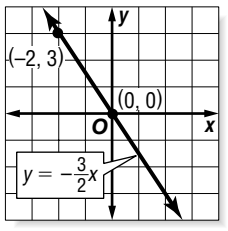
1.



2.

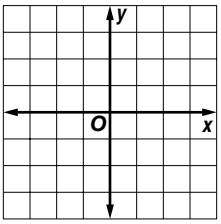


3.

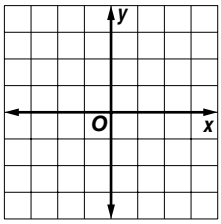


Graph each equation.

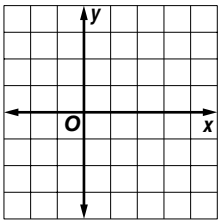
4. $y = 3x$



5. $y = -\frac{3}{4}x$



6. $y = \frac{2}{5}x$



Write a direct variation equation that relates x and y. Assume that y varies directly as x. Then solve.

7. If $y = -8$ when $x = -2$, find x when $y = 32$.

8. If $y = 45$ when $x = 15$, find x when $y = 15$.

9. If $y = -4$ when $x = 2$, find y when $x = -6$.

10. If $y = -9$ when $x = 3$, find y when $x = -5$.

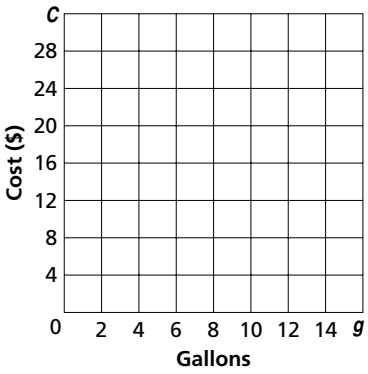
11. If $y = 4$ when $x = 16$, find y when $x = 6$.

12. If $y = 12$ when $x = 18$, find x when $y = -16$.

Write a direct variation equation that relates the variables. Then graph the equation.

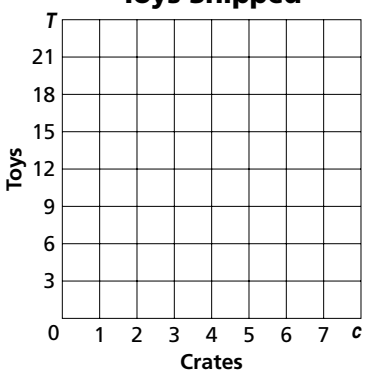
13. TRAVEL The total cost C of gasoline is \$1.80 times the number of gallons g.

Gasoline Cost



14. SHIPPING The number of delivered toys T is 3 times the total number of crates c.

Toys Shipped



Lesson 5-2