

ARE YOU READY?

✓ Vocabulary

Match each term on the left with a definition on the right.

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|---------------------|---|
| 1. coefficient | A. a change in the size or position of a figure |
| 2. coordinate plane | B. forming right angles |
| 3. transformation | C. a two-dimensional system formed by the intersection of a horizontal number line and a vertical number line |
| 4. perpendicular | D. an ordered pair of numbers that gives the location of a point |
| | E. a number that is multiplied by a variable |

✓ Ordered Pairs

Graph each point on the same coordinate plane.

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|---------------|----------------|---------------|-----------------|
| 5. $A(2, 5)$ | 6. $B(-1, -3)$ | 7. $C(-5, 2)$ | 8. $D(4, -4)$ |
| 9. $E(-2, 0)$ | 10. $F(0, 3)$ | 11. $G(8, 7)$ | 12. $H(-8, -7)$ |

✓ Solve for a Variable

Solve each equation for the indicated variable.

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|-------------------------|---------------------------|
| 13. $2x + y = 8$; y | 14. $5y = 5x - 10$; y |
| 15. $2y = 6x - 8$; y | 16. $10x + 25 = 5y$; y |

✓ Evaluate Expressions

Evaluate each expression for the given value of the variable.

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|-------------------------|--------------------------|
| 17. $4g - 3$; $g = -2$ | 18. $8p - 12$; $p = 4$ |
| 19. $4x + 8$; $x = -2$ | 20. $-5t - 15$; $t = 1$ |

✓ Connect Words and Algebra

21. The value of a stock begins at \$0.05 and increases by \$0.01 each month. Write an equation representing the value of the stock v in any month m .
22. Write a situation that could be modeled by the equation $b = 100 - s$.

✓ Rates and Unit Rates

Find each unit rate.

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|------------------------------------|---------------------------------------|
| 23. 322 miles on 14 gallons of gas | 24. \$14.25 for 3 pounds of deli meat |
| 25. 32 grams of fat in 4 servings | 26. 120 pictures on 5 rolls of film |