

ARE YOU READY?

Vocabulary

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

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|----------------------------|--|
| 1. equation | A. mathematical phrase that contains operations, numbers, and/or variables |
| 2. evaluate | B. mathematical statement that two expressions are equivalent |
| 3. inverse operations | C. value of a variable that makes a statement true |
| 4. like terms | D. terms that contain the same variables raised to the same powers |
| 5. solution of an equation | E. to find the value of an expression |
| | F. operations that undo each other |

Evaluate Expressions

Evaluate each expression for $a = 2$ and $b = 6$.

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|------------|---------|---------------|------------|
| 6. $b - a$ | 7. ab | 8. $b \div a$ | 9. $a + b$ |
|------------|---------|---------------|------------|

Compare and Order Real Numbers

Compare. Write $<$, $>$, or $=$.

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|---------------------|-------------------------|------------------------|---------------------------------------|
| 10. $10 \square 21$ | 11. $5.27 \square 5.23$ | 12. $20\% \square 0.2$ | 13. $\frac{1}{3} \square \frac{2}{5}$ |
|---------------------|-------------------------|------------------------|---------------------------------------|

Combine Like Terms

Simplify each expression by combining like terms.

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|--------------------|-------------------|
| 14. $6x + x$ | 15. $-8a + 3a$ |
| 16. $9x^2 - 15x^2$ | 17. $2.1x + 4.3x$ |

Distributive Property

Simplify each expression.

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|----------------|----------------|
| 18. $2(x + 3)$ | 19. $(3 - d)5$ |
| 20. $4(r - 1)$ | 21. $3(4 + m)$ |

Solve One-Step Equations

Solve.

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|------------------|----------------|-------------------|-------------------------|
| 22. $s - 3 = 8$ | 23. $-7x = 21$ | 24. $y + 11 = 2$ | 25. $\frac{h}{2} = 6$ |
| 26. $t + 2 = -2$ | 27. $6x = 42$ | 28. $r - 8 = -13$ | 29. $\frac{y}{3} = -12$ |