

ARE YOU READY?

Vocabulary

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

- | | |
|-------------------------|---|
| 1. Associative Property | A. a number that is raised to a power |
| 2. coefficient | B. a number that is multiplied by a variable |
| 3. Commutative Property | C. a property of addition and multiplication that states you can add or multiply numbers in any order |
| 4. exponent | D. the number of times a base is used as a factor |
| 5. like terms | E. terms that contain the same variables raised to the same powers |
| | F. a property of addition and multiplication that states you can group the numbers in any order |

Exponents

Write each expression using a base and an exponent.

- | | | |
|--|---|---------------------------|
| 6. $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$ | 7. $5 \cdot 5$ | 8. $(-10)(-10)(-10)(-10)$ |
| 9. $x \cdot x \cdot x$ | 10. $k \cdot k \cdot k \cdot k \cdot k$ | 11. 9 |

Evaluate Powers

Evaluate each expression.

- | | | |
|-----------|-------------|--------------|
| 12. 3^4 | 13. -12^2 | 14. 5^3 |
| 15. 2^5 | 16. 4^3 | 17. $(-1)^6$ |

Multiply Decimals

Multiply.

- | | | |
|-----------------------|------------------------|----------------------|
| 18. 0.006×10 | 19. 25.25×100 | 20. 2.4×6.5 |
|-----------------------|------------------------|----------------------|

Combine Like Terms

Simplify each expression.

- | | |
|-----------------------------------|-----------------------------|
| 21. $6 + 3p + 14 + 9p$ | 22. $8y - 4x + 2y + 7x - x$ |
| 23. $(12 + 3w - 5) + 6w - 3 - 5w$ | 24. $6n - 14 + 5n$ |

Squares and Square Roots

Tell whether each number is a perfect square. If so, identify its positive square root.

- | | | | |
|---------|--------|--------|--------|
| 25. 42 | 26. 81 | 27. 36 | 28. 50 |
| 29. 100 | 30. 4 | 31. 1 | 32. 12 |