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CHAPTER REVIEW



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- Multi-Language Glossary
- Vocabulary practice

REVIEW KEY VOCABULARY

- opposite, p. 4
- reciprocal, p. 4
- numerical expression, p. 10
- power, p. 10
- exponent, p. 10
- base, p. 10
- variable, p. 11
- algebraic expression, p. 11
- term, p. 12
- variable term, p. 12
- constant term, p. 12
- coefficient, p. 12
- like terms, p. 12
- equivalent expressions, p. 12
- identity, p. 12
- equation, p. 18
- linear equation, p. 18
- solution of an equation, p. 18
- equivalent equations, p. 18
- formula, p. 26
- solve for a variable, p. 26
- verbal model, p. 34
- linear inequality, p. 41
- solution of an inequality, p. 41
- graph of an inequality, p. 41
- compound inequality, p. 41
- equivalent inequalities, p. 42
- absolute value, p. 51
- extraneous solution, p. 52

VOCABULARY EXERCISES

1. Copy and complete: In a power, the ? represents the number of times the ? is used as a factor.
2. Copy and complete: If substituting a number for a variable in an equation results in a true statement, then the number is a(n) ? of the equation.
3. Copy and complete: A(n) ? is an apparent solution that must be rejected because it does not satisfy the original equation.
4. Identify the like terms in the expression $40 + 3x^3 + 3x^2 - 7 - x^2$.
5. Give an example of two equivalent algebraic expressions.
6. **WRITING** Compare the procedures for solving a linear equation and a linear inequality. How are they similar? How are they different?

REVIEW EXAMPLES AND EXERCISES

Use the review examples and exercises below to check your understanding of the concepts you have learned in each lesson of Chapter 1.

1.1 Apply Properties of Real Numbers

pp. 2–9

EXAMPLE

Identify the property that the statement illustrates.

a. $2(w + \ell) = 2w + 2\ell$

Distributive property

b. $6 + (2 + 4) = 6 + (4 + 2)$

Commutative property of addition

EXERCISES

Identify the property that the statement illustrates.

7. $17 \cdot \frac{1}{17} = 1$

8. $60 + 0 = 60$

9. $3a + 7a = (3 + 7)a$

EXAMPLE 3

on p. 4
for Exs. 7–9