## Name: \_\_\_\_

- 1. Which of the following shows an application of the distributive property?
  - A. (6xy + 4xy) + 2xz = 6xy + (4xz + 2xz)
  - B. 2xy + 3xz + 5xy = 2xy + 5xy + 3xz
  - C. 4xy 12xz = 4x(y 3z)
  - D. -5xy + 5xy + 3xz = 3xz
- 2. Which of the following expressions represents a number (*n*) less than 12?

A. 
$$n - 12$$
  
B.  $12 - n$   
C.  $n + 12$   
D.  $12 + n$ 

- 3. The equation below is an example of which property of real numbers?
  - $2x \cdot \left(\frac{1}{2x}\right) = 1$
  - A. Multiplicative identity property
  - B. Multiplicative inverse property
  - C. Associative property of multiplication
  - D. Commutative property of multiplication
- 4. Which of the following are inverse operations?
  - A. multiplication and addition
  - B. square root and division
  - C. subtraction and taking square root
  - D. addition and subtraction

Date:

5. Which property of real numbers is illustrated below?

x(y+z) = xy + xz

- A. Associative Property of Addition
- B. Associative Property of Multiplication
- C. Distributive Property
- D. Commutative Property of Multiplication
- 6. Which of the following is true for all possible values of *x*?
  - A. 3(x + 1) = 3x + 1B. 2(x + 3) = 2x + 6C. 4(2x + 1) = 6x + 5D. 5(3x - 2) = 15x - 7
- 7. Which of these equations shows the Associative Property of Multiplication?
  - A.  $(a \times b)c = a(b \times c)$
  - B.  $a(b \times c) = (a \times b) \times (a \times c)$
  - C.  $a \times 1 = 1 \times a$
  - D.  $(a \times b) \times c = (b \times a) \times c$