

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

### Homework 10/8

**Directions:** Name which property (Associative, Commutative, Identify, or Distributive) the statement applies to.

- 1) When three or more numbers are multiplied the product is the same regardless of the order. *For example:*  $(a \times b) \times c = a \times (b \times c)$  \_\_\_\_\_
- 2) When two numbers are added the sum is the same regardless of the order. *For example:*  $5 + 6 = 6 + 5$  \_\_\_\_\_
- 3) The sum of two numbers times a third number is equal to the sum of each addend times the third number. *For example:*  $8 \times 15 = (8 \times 10) + (8 \times 5)$   
\_\_\_\_\_
- 4) The sum of any number and zero is the original number. *For example:*  $150 + 0 = 150$  \_\_\_\_\_

**Directions:** Pick the equation that shows the property named.

- 5) Identity Property of Multiplication:  
a.  $a \times 1$    b.  $a(b + c) = ab + ac$    c.  $(a + b) + 5 = a + (5 + b)$    d.  $a + a + a = 3a$
- 6) Associative Property of Addition:  
a.  $(2+7) + 6 = 2 + (7+6)$    b.  $8 + 0 = 8$    c.  $4+2 = 2+4$    d.  $3 + (-3) = 0$
- 7) Commutative Property of Multiplication:  
a.  $9 \times 3 = 9 + 9 + 9$    b.  $5 \times 1 = 5$    c.  $8 \times 4 = 4 \times 8$    d.  $7 \times 2 + 1 = 1 \times 7 + 2$

**Directions:** Solve the problems.

8)  $159 \times 13 =$  \_\_\_\_\_

9)  $245 \div 6 =$  \_\_\_\_\_

- 10) A factory packed 185 teddy bears into large boxes for delivery to a toy store. Each large box held 9 teddy bears. The remaining bears were packed into a small box. How many teddy bears were packed in the small box?  
\_\_\_\_\_

