## .....Properties of Multiplication

**Identity Property**—When a number is multiplied by one, the product is the number.  $7 \times 1 = 7$ 

**Zero Property**—When a number is multiplied by zero, the product is zero.  $13 \times 0 = 0$ 

**Commutative Property**—When two factors are multiplied in any order, the product is always the same.  $3 \times 8 = 8 \times 3$ 

**Associative Property**—You can change the way you group numbers in a multiplication sentence, and the product is always the same.  $3 \times (5 \times 6) = (3 \times 5) \times 6$ 

**Distributive Property**—You can distribute the number being multiplied by each of the numbers being added.  $2 \times (4 + 3) = (2 \times 4) + (2 \times 3)$ 

Write the missing numbers and the names of the properties shown. The first one is done for you.

1. 
$$92 \times _{0} = 0$$

**2.** 
$$8 \times (5 \times 6) = (8 \times \_\_) \times 6$$

3. 
$$10 \times 20 =$$
\_\_\_\_  $\times 10$ 

**4.** 
$$4 \times (9 + 4) = (4 \times \underline{\hspace{1cm}}) + (4 \times 4)$$

**5.** 18 × \_\_\_\_ = 18

**7.** 
$$(25 \times 40) \times 20 = 25 \times ($$
 \_\_\_\_\_  $\times 20)$ 

**8.** \_\_\_\_\_ 
$$\times$$
 (40 + 32) = (6  $\times$  \_\_\_\_\_ ) + (6  $\times$  32)

11. 
$$356 \times 4 =$$
  $\times 356$ 

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## Multiple Choice.

Write the correct operation sign in each box. Circle the name of the operation you would use to solve each problem.

**1.** 385 5 = 1,925

> addition subtraction

multiplication

division

**2.** 698 325 = 1,023

> addition subtraction

multiplication

division

**3.** 225 25 = 9

addition

subtraction

multiplication

division

**4.** 398 123 = 275

addition

subtraction

multiplication

division

**5.** 836 2 = 834

addition

subtraction

multiplication

division

**6.** 556 4 = 139

addition

subtraction

multiplication

division

**7.** 123 8 = 984

addition

subtraction

multiplication

division

**8.** 436 203 =

addition

subtraction

multiplication

division

**9.** 313 108 = 205

addition

subtraction

multiplication

division

**10.** 725 \[ 5 = 145

addition

subtraction

multiplication

division