Lesson 1.2 The Distributive Property

The **Distributive Property** combines the operations of addition and multiplication.

$$a \times (b + c)$$

3 × (2 + 5)
3 × 7

$$(a \times b) + (a \times c)$$

 $(3 \times 2) + (3 \times 5)$
 $6 + 15$
 21

Indicate which operation should be done first.

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1.
$$(2 \times 5) + (2 \times 3)$$

$$(3 \times 5) + (3 \times 7)$$

Rewrite each expression using the Distributive Property.

$$(2 \times 5) + (2 \times 4) =$$

4.
$$(5 \times 1) + (5 \times 6) =$$

$$4 \times (2 + 6) =$$

5.
$$8 \times (4 + 3) =$$

$$(5 \times 0) + (5 \times 1) =$$

Write each missing number.

6.
$$(5 \times 3) + (n \times 4) = 5 \times (3 + 4)$$

$$7 \times (n + 3) = (7 \times 2) + (7 \times 3)$$

7.
$$n \times (5 + 3) = (6 \times 5) + (6 \times 3)$$

$$(5 \times 7) + (n \times 4) = 5 \times (7 + 4)$$

8.
$$(4 \times 5) + (4 \times 2) = 4 \times (5 + n)$$
 3 × $(n + 5) = (3 \times 4) + (3 \times 5)$ _____

$$3 \times (n + 5) = (3 \times 4) + (3 \times 5)$$

Replace a with 2, b with 5, and c with 3. Then, find the value of each expression

9.
$$a \times (b + c) =$$

$$(a \times b) + (a \times c) = \underline{\hspace{1cm}}$$

10.
$$(c \times a) + (c \times b) =$$

$$b \times (a + c) =$$