

Properties of Multiplication Distributive



One of the multiplication properties is distributive, which means you can multiply a sum or difference by multiplying each number separately and then adding or subtracting the products.

$$A \times (B + C) = A \times B + A \times C$$
 $A \times (B - C) = A \times B - A \times C$

$$A \times (B - C) = A \times B - A \times C$$

Part I: Find the product.

a.
$$7 \times (5 + 2) = 7 \times (\underline{7}) = \underline{49}$$

$$(7 \times 5) + (7 \times 2) = (35) + (14) = 49$$

$$(3 \times 8) - (3 \times 4) = (24) - (12) = 12$$

Part II: Rewrite the equations.

Example:
$$5 \times (6 + 1) = (5 \times 6) + (5 \times 1)$$
 a. $8 \times (10 + 2) = (8 \times 10) + (8 \times 2)$

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b.
$$9 \times (9 - 3) = (9 \times 9) - (9 \times 3)$$
 c. $4 \times (9 - 2) = (4 \times 9) - (4 \times 2)$

c.
$$4 \times (9 - 2) = (4 \times 9) - (4 \times 2)$$