

Name: _____

Date: _____

Properties of Multiplication

Distributive Property

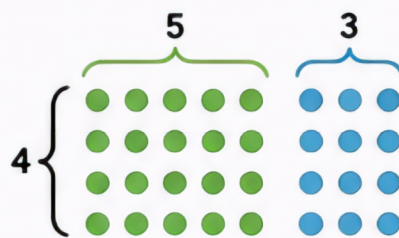
The Distributive Property helps us multiply a number by a sum.

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

It means: multiply the number by each part inside the parentheses, then add the products.

Example:

$$\begin{aligned} 4 \times (5 + 3) &= (4 \times 5) + (4 \times 3) \\ &= 20 + 12 \\ &= 32 \end{aligned}$$



Part 1: Use the Distributive Property to find each product.

1. $3 \times (6 + 4) =$ _____

Show your work here:

2. $5 \times (7 + 2) =$ _____

Show your work here:

3. $2 \times (9 + 5) =$ _____

Show your work here:

4. $6 \times (4 + 8) =$ _____

Show your work here:

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

Show your work here:

6. $7 \times (2 + 5) =$ _____

Show your work here:

Part 2: Write each expression in two different ways using the Distributive Property.
(Show both equivalent expressions and find the value.)

7. $8 \times (3 + 7)$

Way 1: _____

= _____

Way 2: _____

= _____

Value: _____

8. $5 \times (6 + 4)$

Way 1: _____

= _____

Way 2: _____

= _____

Value: _____

