

Name: _____

Date: _____

Properties of Multiplication

Associative Property



The **Associative Property of Multiplication** says that when three or more numbers are multiplied, the way the numbers are grouped does not change the product.

Example:

$$\begin{aligned} (2 \times 3) \times 4 &= 2 \times (3 \times 4) \\ 6 \times 4 &= 2 \times 12 \\ 24 &= 24 \end{aligned}$$

Directions: Find each product. Show your work in the space provided.

1 $(2 \times 4) \times 5 = 2 \times (4 \times 5)$

Left side:

Right side:

The product is _____

2 $(3 \times 5) \times 2 = 3 \times (5 \times 2)$

Left side:

Right side:

The product is _____

3 $(4 \times 2) \times 6 = 4 \times (2 \times 6)$

Left side:

Right side:

The product is _____

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

Left side:

Right side:

The product is _____