

## Associative Property

You can group factors in different ways and you will get the same **exact** product.

$$(5 \times 2) \times 8 = 80$$

$$5 \times (2 \times 8) = 80$$

## Commutative Property

You can multiply factors in any order and you will **ALWAYS** get the same product.

$$8 \times 3 = 24$$

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## Identity Property

The product of **ANY** number and **1** is that number.

$$7 \times 1 = 7 \quad 9 \times 1 = 9$$

## Zero Property

The product of **ANY** number and **0** is 0.

$$5 \times 0 = 0 \quad 8 \times 0 = 0$$

## Distributive Property

A multiplication fact can be **decomposed** into the **sum** of two smaller facts.

$$7 \times 4 = (5 \times 4) + (2 \times 4)$$