

**Commutative
Property**

$$a \cdot (b + c) = ab + ac$$

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

$$7 \times 9 = 9 \times 7$$

$$6 \cdot 1 = 6$$

$$x \cdot 1 = x$$

$$19 \times 1 = 1 \times 19$$

$$xy = yx$$

$$10 \cdot 5 = 5 \cdot 10$$

$$1 \cdot 10 = 10$$

**Associative
Property**

$$8 \cdot 1 = 8$$

$$3 \cdot 1 = 3$$

$$(7 \cdot 2) \cdot 3 = 7 \cdot (2 \cdot 3)$$

$$1,433 \cdot 1 = 1,433$$

$$10 \cdot (4 + 3) = 10 \cdot 4 + 10 \cdot 3$$

$$25 \cdot 1 = 25$$

$$a \cdot 1 = a$$

$$ab = ba$$

$$3 \cdot 5 = 5 \cdot 3$$

**Identity
Property**

$$(2 \cdot 6) \cdot 1 = 2 \cdot (6 \cdot 1)$$

$$6 \times 4 = 4 \times 6$$

$$(8 \cdot 6) \cdot 4 = 8 \cdot (6 \cdot 4)$$

$$ab \cdot 1 = ab$$

$$4 \cdot 8 \cdot 2 = (4 \cdot 8) \cdot 2$$

$$2 + (7 + 8) = (2 + 7) + 8$$

$$(a \cdot b) \cdot c = a \cdot (b \cdot c)$$

$$1 + (6 + 7) = (1 + 6) + 7$$

$$4 \cdot (4 \cdot 2) = (4 \cdot 4) \cdot 2$$