

Properties of Multiplication and Addition

What is your identity?

Identity Property of Addition

$$5 + 0 = 5$$

Identity Property of Multiplication

$$8 \times 1 = 8$$



Properties of Multiplication and Addition

Identity Property of Addition

$$3 + 0 = 3 \quad 0 + 3 = 3$$

Identity Property of Multiplication

$$3 \times 1 = 3 \quad 1 \times 3 = 3$$

Properties of Multiplication and Addition

What does it mean to associate? *group*



Properties of Multiplication and Addition

Associative Property of Addition

$$(1 + 2) + 3 = 1 + (2 + 3)$$

Associative Property of Multiplication

$$(1 \times 2) \times 3 = 1 \times (2 \times 3)$$

Properties of Multiplication and Addition

What does it mean to *Change* commute?
location



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Commutative Property of Addition

$$3 + 5 = 8 \quad 5 + 3 = 8$$

$$3 + 5 = 5 + 3$$

Commutative Property of Multiplication

$$2 \times 5 = 5 \times 2$$