

Properties of Addition!!!

Identity Property of Addition

(Zero Property of Addition)

When you **add zero** to a number, the sum is that number! It doesn't lose its "Identity"

Examples

$$65 + 0 = 65$$

$$0 + 729 = 729$$

$$8,925 + 0 = 8,925$$

Commutative Property of Addition

When you change the **order** of the numbers being added, the sum stays the same.

Examples

$$6 + 9 = 15; 9 + 6 = 15$$

$$27 + 13 = 40; 13 + 27 = 40$$

$$450 + 300 = 750; 300 + 450 = 750$$

Associative Property of Addition

When you change the **grouping** of the numbers being added, the sum stays the same.

Examples

$$(6 + 4) + 9 = 6 + (4 + 9)$$

$$12 + (5 + 8) = (12 + 8) + 5$$

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