Property	Addition	Multiplication
Identity	Any number added to 0 equals the same number.	Any number multiplied by 1 equals the same number.
	3 + 0 = 3	3 x 1 = 3
Commutative	It doesn't matter what the order is of the numbers added, you get the same sum.	It doesn't matter what the order of the factors that are multiplied are, you get the same product.
	3 + 4 = 7 4 + 3 = 7	3 x 4 = 12 4 x 3 = 12
Zero Property	No zero property of addition	When you multiply any factor multiplied by 0, the product is 0.
		5 x 0 = 0 8 x 0 = 0

Property	Addition	Multiplication
Distributive	No distributive property of addition	Multiplying a sum by a number is the same as multiplying each addend by the number and then adding the products 3(2 + 5) $(3 \times 2) + (3 \times 5)$
Associative Property	When addends are grouped, then added, the sum is the same 3 + (2 + 4) = 9 (3 + 2) + 4 = 9	21 When factors are grouped, then multiplied, the product is the same 3 X (2 X 4) = 24 (3 X 2) x 4 = 24