Properties of Multiplication

Commutative Property 7 X 2 = 14 2 X 7 = 147 X 2 = 2 X 7

Changing the order of the factors does not change the product.

Associative Property (3 X 2) X 4 = 24 3 X (2 X 4) = 14 (3 X 2) X 4 = 3 X (2 X 4)

Changing the grouping of the factors does not change the product.

 Identity Property

 1 X 9 = 9
 9 X 1 = 1

The product of one and any other number is that number.

Zero Property $0 \times 8 = 0$ $8 \times 0 = 0$

The product of zero and any other number is zero.

Distributive Property $3 \times (1 + 5) = 3 \times 6 = 18$ $(3 \times 1) + (3 \times 5) = 3 + 15 = 18$ $3 \times (1 + 5) = (3 \times 1) + (3 \times 5)$

The product of a factor and a sum is equal to the sum of the products.

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