

Multiplication and Division Rules

Multiplication Rules	
Zero Property	When you multiply any number by 0 the product is 0. $5 \times 0 = 0$
Property of One	When you multiply any number times 1 the product is THAT number. $1 \times 5 = 5$
Commutative Property	When you change the order of the factors, the product stays the same. $2 \times 3 = 6$ so $3 \times 2 = 6$ Also $1 \times 2 \times 5 = 10$ so $5 \times 2 \times 1 = 10$
Associative Property	When you group factors in different ways, the product stays the same. <i>The parentheses tell you which umbers to multiply first.</i> $(3 \times 2) \times 4 = 24$ $3 \times (2 \times 4) = 24$
Division Rules	
When you divide a number by itself the quotient is 1. This is true for all numbers except 0. $5 / 5 = 1$	When you divide a number by 1, the quotient is the same as the dividend. $5 / 1 = 5$
When you divide 0 by a number other than the quotient is 0. $0 / 5 = 0$	You cannot divide a number by 0. $5 / 0 = X$