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| **Property** | **Example** |
| Distributive Property | 4(x + 2) = 4x + 8 |
| Commutative Property of Addition | a + 6 = 6 + a |
| Commutative Property of Multiplication | (2)(a) = (a)(2) |
| Associative Property of Addition | x + (a + 4) = (x + a) + 4 |
| Associative Property of Multiplication | 5(ab) = (5a)b |
| Additive Identity | 7 + 0 = 7 |
| Additive Inverse | 5 + (-5) = 0 |
| Multiplicative Identity | (6)(1) = 6 |
| Multiplicative Inverse | (8)(1/8) = 1 |
| Distributive Property | x(4 + 6) = 4x + 6x |
| Commutative Property of Addition | (x + 6) + 5 = (6 + x) + 5 |
| Commutative Property of Multiplication | (5a)b = b(5a) |
| Associative Property of Addition | (x + y) + 3 = x + (y + 3) |
| Associative Property of Multiplication | (6x)y = 6(xy) |
| Additive Identity | y + 0 = y |
| Additive Inverse | b + (-b) = 0 |
| Multiplicative Identity | x(1) = x |
| Multiplicative Inverse | x(1/x) = 1 |