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Properties of Numbers

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| **Across**  **2.** A quantity may be substituted for its equal in any expression.  **3.** If x = y, then y = x.  **7.** a + 0 = a  **8.** Another name for reciprocal  **9.** For any numbers a, b, and c, if a = b and b = c, then a = c.  **10.** The way you group three or more numbers when adding or multiplying does not change their sum or product  **11.** Any quantity is equal to itself  **12.** 5 + (-5) = 0 | **Down**  **1.** 8\*(0) = 0  **4.** 5 \* 4 \* 3 = 5 \* 3 \* 4  **5.** x + y = y + x  **6.** For any number x, the product of x and 1 is x. |

   reflexive property       symmetric property       transitive property       substitution property       additive identity       additive inverse       multiplicative identity       multiplicative property of zero       multiplicative inverse       commutative property       commutative property       associative property