11	Janie 5000	J.
Т	eacher: Date	:
Identify the Properties of Mathematics		
1)	If you divide the same number to both sides of an equation, the equation is still true. For example if $a = b$, then $a / c = b / c$.	
2)	When two numbers are multiplied together, the product is the same regard the order of the multiplicands. For example $a \times b = b \times a$	rdless
3)	When three or more numbers are added, the sum is the same regardless of the grouping of the addends. For example $(a + b) + c = a + (b + c)$	
4)	If you multiply the same number to both sides of an equation, the equation is still true. For example if $a = b$, then $a \times c = b \times c$.	n
5)	If you subtract the same number from both sides of an equation, the equal is still true. For example if $a = b$, then $a - c = b - c$.	ation
6)	The equals sign in an equation is like a scale: both sides, left and right, not the same in order for the scale to stay in balance and the equation to be	
7)	The additive inverse of a number, a is -a so that $a + -a = 0$.	
8)	If you add the same number to both sides of an equation, the equation is still true. For example if $a = b$, then $a + c = b + c$.	
9)	The product of any number and one is that number. For example a x 1 =	a
10)	The multiplicative inverse of a number, a is $\frac{1}{a}$ so that a x $\frac{1}{a}$ = 1.	
11)	The sum of any number and zero is the original number. For example a	· 0 = a
12)	When two numbers are added, the sum is the same regardless of the order of the addends. For example $a + b = b + a$	
3)	When three or more numbers are multiplied, the product is the same regard of the order of the multiplicands. For example $(a \times b) \times c = a \times (b \times c)$	ardless
4)	The sum of two numbers times a third number is equal to the sum of eac addend times the third number. For example $a \times (b + c) = a \times b + a \times c$	n
5)	Adding 0 to any number leaves it unchanged. For example $a + 0 = a$.	

