Properties of Real Numbers			
1.	Commutative Property of Addition:	a + b	= b + a
	You can add numbers of a sum in any order.		
2.	Commutative Property of Multiplication:	a (b) = b (a)	
	You can multiply numbers of a product in any order.		
3.	Associative Property of Addition:	(a + b) + c	= a + (b + c)
	Changing the grouping of numbers will not change the sum.		
4.	Associative Property of Multiplication:	a (bc) = (ab) c	
	Changing the grouping of numbers will not change the product.		
5.	Zero is the <u>Additive Identity</u> :	a + 0 = a	0 + a = a
	When zero is added to any number, the result is the number itself.		
6.	Every number, a, has an <u>Additive Inverse</u> , -a.	a + -a = 0	
	When you add a number and its opposite, the result it zero.		
7.	One is the <u>Multiplicative Identity</u> :	a * 1 = a	1 * a = a
	When any number is multiplied by one, the result is the number itse	elf.	
8.	Every number, a, that is not zero has a <u>Multiplicative Inverse (</u> reciprocal)), <u>1</u> .	<u>a</u> ● <u>1</u> = 1
	When you multiply a number and its reciprocal, the result is one.	а	1 a
		<i></i> .	
9.	<u>Distributive Property of Multiplication</u> : When the number outside the parenthesis is shared with EACH of the parenthesis is shared wit		= a(b) + a(c) side the
	parenthesis.		
10.	<u>Closure</u> :		
	You are given a set of numbers to start. If when you perform the in	-	
	answer is a # in the set you started with, you have closure. If not, th operation.	ne set is not clo	osed under that
	Ex: Given $\{1, 2, 3, 4, 5, \}$		

Date:

Period:

Ex: Given {1, 2, 3, 4, 5, ...}

Name:

Determine if the set is closed under addition, subtraction, multiplication and division. Addition? Add any two #s in the set. Do you always get another # in the given set? If yes, the set is closed under addition. If no, the set is NOT closed under addition.

Repeat the same question for other operations to determine closure.