Logarithm Rules Worksheet	NAME:
Remember to think of $\log_b x$ as the number to which I raise $b$ to get $x$ . This is very important in the study of logs.	
Let $b$ , $v$ , and $w$ be positive real numbers where $b$ is not equal to one. Let $k$ be a real number.	
1. In words, what is $\log_b b$ ? It's the number to which I raise to get	
What does this number we call $\log_b b$ have to be?	
2. In words, what is $\log_b 1$ ? It's the number to which I raise	se to get
What does this number we call $\log_b 1$ have to be?	
3. In words, what is $\log_b(b^k)$ ? It's the number to which I	raise to get
What does this number we call $\log_b(b^k)$ have to be?	
4 Now log wis the number to which I raise b to get will	herefore h raised to this nower
4. Now $\log_b v$ is the number to which I raise $b$ to get $v$ . Therefore $b$ raised to this power or $b^{\log_b v}$ should be what number?	
or snould be what number?	