Chemistry I		Name	
Stoichiometry Test		Date	
SHOW ALL WORK			
1.	Given the reaction,		
	$2H_{2(g)} + O_{2(g)}$	> 2H ₂ O ₍₁₎	
	to produce 0.600 moles of $H_2O_{(1)}$:		
	a.) how many moles of $H_{2(g)}$ are needed?		
	b.) how many liters of $O_{2(g)}$ are needed?		
2.	For the reaction,		
	2SO _{2(g)} + O _{2(g)}	> 2SO ₃₍₁₎	
	how many moles of SO_3 liquid will with 2.1973 x 10^{20} molecules of		
3.	If the following reaction occur	s,	
	Al ₂ (SO ₄) ₃ +BaCl ₂	->AlCl ₃ +BaSO ₄	

how many grams of barium chloride will be needed to react with 188 grams of aluminum sulfate?

4. If 78.0 liters of oxygen are consumed when a candle made from paraffin $(C_{25}H_{52})$ is burned, what volume of carbon dioxide is produced? (Water is the other product.)

5. When 4.25 moles of sodium phosphite reacts with 4.25 moles of zinc perbromate in a double replacement reaction, how many moles of sodium perbromate are produced?