WS 4.4 STOICHIOMETRY part 2 Show all work using dimensional analysis! 1. 3 cups flour + 1 egg> 1 loaf bread a) If you have 12 cups of flour and 3 eggs, how many loaves of bread can you make?			
			Ans:
		b) Which ingredient do you run out of first (limiting reactant)?	Ans:
b) Writer ingredient do you fun out of mot (infilting reactant):	A113		
2. $2 \text{ Al} + 6 \text{ HCl} \longrightarrow 3 \text{ H}_2 + 2 \text{ AlCl }_3$			
a) If you start with 205 g of aluminum and 75.6 g of HCl, how many	grams of H_2 can be made?		
	Ans		
b) What is the limiting reagent?	Ans		
c) Suppose you only made 1.98 g of H ₂ . What is your % yield?			
	Ans		
0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 11.0		
3. $2 \text{ Fe}_2 \text{S}_3 + 3 \text{ C} \longrightarrow 4 \text{ Fe} + 3 \text{ CS}_2$			
a) How many grams of iron can be made from 119 g of Fe ₂ S ₃ and	12.7 g C?		
	Ans		
b) What is the limiting reagent?	Ans		
c) After the above reaction, you produce 35.6 g of Fe. What is you	r % yield?		
	Ans		
	7410		
4. $6 CO_2 + 6 H_2O \longrightarrow C_6H_{12}O_6 + 6 O_2$			
a) How many grams of sugar can be made from 50.0 g of CO ₂ and	50.0 g of water?		
	Ans		
b) What is the limiting reagent?	Ans		
c) What is the excess reagent?	Ans		
BONUS How many grams of the excess reagent are leftover?			
(hint- you'll need to use stoichiometry to solve this!)			
	Ans		
Ans (IRO+2): numerical ans's only 2.07 3 4 34.1 55.6 64.0 75.	2 95.7		

Units (IRO): g g g % % loaves