

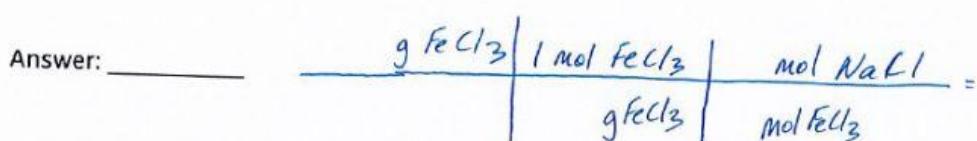
## Stoichiometry: Mass – Mole Worksheet

Solve the following stoichiometry problems and type in the correct answer with units.  
(for example: 3.45 mol or 4.62 g) Round the masses from the periodic table to the nearest whole number. Round all answers to 2 decimal places.

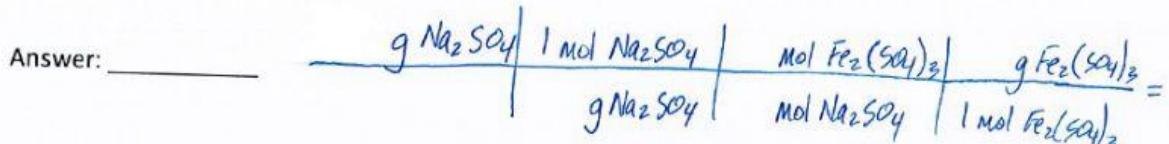
1. Based on the following chemical equation, please answer the following questions



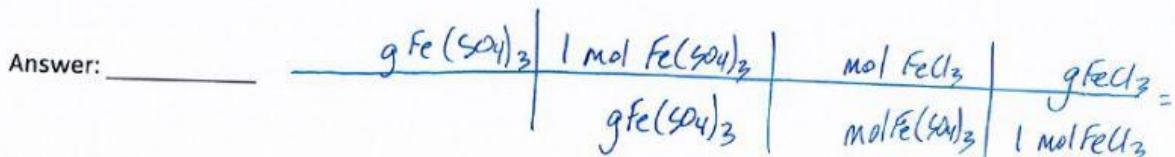
- a. Calculate the amount of moles of NaCl needed to produce 75 g of  $\text{FeCl}_3$ .



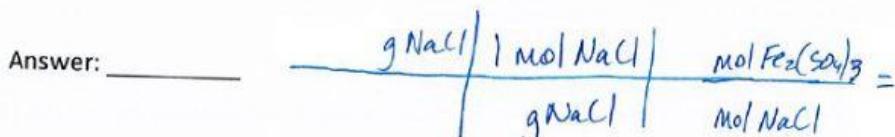
- b. Calculate the amount of  $\text{Fe}_2(\text{SO}_4)_3$  in grams produce 215 g  $\text{Na}_2\text{SO}_4$ .



- c. Calculate the amount in grams of  $\text{FeCl}_3$  produced with 95g of  $\text{Fe}(\text{SO}_4)_3$ .



- d. Calculate the amount of moles of  $\text{Fe}_2(\text{SO}_4)_3$  needed to react with 123.5 g of NaCl.



2. How many moles of  $\text{CaCO}_3$  can be produced if we make 12.3 g of  $\text{Ca}(\text{HCO}_3)_2$  reacts with  $\text{CaCO}_3$ ?

