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Honors Chemistry Worksheet: Calculations Involving a Limiting Reactant
✓ If an equation is not given write a balanced equation.
✓ Identify the limiting reactant in each problem.

1. For the reaction of  $2Na_{(s)} + Cl_{2(g)} \rightarrow 2 NaCl_{(s)}$ , 12.0 grams of sodium reacts with 5.00 grams of chlorine. What mass of sodium chloride could be produced?

$$\frac{2.0g}{42,975}Na} \frac{1}{3Na} \frac{1}{1Mi} Na}{1} \frac{1}{1Mi} Na}{1} \frac{1}{1Mi} Na} \frac{1}{1} \frac{1}{1Mi} Na}{1} \frac{1}{1} \frac{1}{1$$

c.) What mass of excess reactant remains?

5. Given: 
$$(Cy_{0}) = NaCk_{0,0} + HC_{0,0} > NaHCO2,Ref + NiH0CV0,Ref + NiH$$