Stoichiometry Worksheet 2

 Sodium chloride can be produced by the reaction of sodium and chlorine gas. Write a balanced equation for this reaction.

Suppose that 6.70 mol Na react with 3.20 mol Cl₂.

- a) What is the limiting reagent?
- b) How many moles of NaCl are produced?

 The equation for the complete combustion of ethane, C₂H₄, is C₂H₄ (g) + O₂ (g) → CO₂ (g) + H₂O (g)

Balance the equation. If 2.70 mol C₂H₄ is reacted with 6.30 mol O₂,

- a) identify the limiting reagent.
- b) calculate the moles of water produced.

Copper and sulfur combine to form copper (I) sulfide.

 $2 \text{ Cu }(s) + \text{S}(s) \rightarrow \text{Cu}_2 \text{S}(s)$

- a) What is the limiting reagent when 80.0 g Cu reacts with 25.0 g S?
- b) What is the maximum number of grams of Cu₂S that can be formed?

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