More Limiting Reactant Practice

1. Calculate the theoretical yield of Fe in **grams**, and identify the limiting reactant using the reactant amounts and equation given.

$$Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$$

Given:
167g Fe_2O_3
85.8g CO

Find:
Theoretical Yield: _____g Fe
Limiting Reactant: _____

2. Calculate the theoretical yield of CO_2 in **grams**, and identify the limiting reactant using the reactant amounts and equation given.

$$Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$$

Given:
167g Fe_2O_3
85.8g CO

Find:
Theoretical Yield: _____g CO_2
Limiting Reactant: _____

3. Calculate the theoretical yield of NaBr in **moles**, and identify the limiting reactant using the reactant amounts and equation given.

$$2Na + Br_2 \rightarrow NaBr$$

Given:
1.8mol Na
1.4mol Br_2

Find:
Theoretical Yield: _____mol NaBr
Limiting Reactant: _____