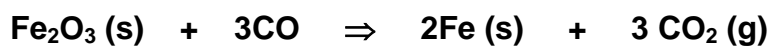


**General Chemistry**  
**Mr. MacGillivray**  
**Quiz #24:**  
**Stoichiometry II**

Solve the following problems using dimensional analysis. Include units in your answers. Be sure to round the answers to the correct number of significant figures.

The following questions refer to the following reaction:



- 1) How many g of carbon dioxide can be produced from 5.00 g of iron (III) oxide?
  
  
  
  
  
  
  
  
  
  
- 2) How many g of iron can be produced from 5.00 mol of iron (III) oxide ?
  
  
  
  
  
  
  
  
  
  
- 3) How many liters of carbon monoxide gas (at STP) would be needed to produce  $2.86 \times 10^{24}$  atoms of iron?