## 4 • Chemical Equations and Stoichiometry

#### SIX STOICHIOMETRY PROBLEMS

General Stoichiometry

[Molar masses:

[Molar masses:

Several brands of antacid tablets use aluminum hydroxide to neutralize excess acid.

$$Al(OH)_2(s) + 3 HCl(aq) \rightarrow AlCl_2(aq) + 3 H_2O(l)$$
  
78.01 36.46 133.4 18.021

What quantity of HCl, in grams, can a tablet with 0.750 g of Al(OH)<sub>3</sub> consume? What quantity of water is produced?

1.05 g HCI

0.520 g H<sub>2</sub>O

17. The equation for one of the reactions in the process of reducing iron ore to the metal is

$$Fe_2O_3(s) + 3 CO(g) \rightarrow 2 Fe(s) + 3 CO_2(g)$$
  
159.7 28.01 55.85 44.011

(a) What is the maximum mass of iron, in grams, that can be obtained from 454 g (1.00 lb) of iron(III) oxide?

31.8 g Fe

(b) What mass of CO is required to reduce the iron(III) oxide to iron metal?

239 g CO

Limiting Reactants

23. The reaction of methane and water is one way to prepare hydrogen:

$$CH_2(g) + H_2O(g) \rightarrow CO(g) + 3 H_2(g)$$

[Molar masses: 16.04 18.02 28.01 2.02]

If you begin with 995 g of CH4 and 2510 g of water, what is the maximum possible yield of H2?

CH<sub>1</sub> is LR.... 376 g H<sub>2</sub> is formed

# **Amadeo Creations Stoichiometry Answers**

Shasha Hu



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