Review Exercise 2 - Dimensional Analysis



- 1. Perform the following conversions using dimensional analysis:
- a) 250 g to kg
- b) 0.800 L to mL
- c) 500 mL to L
- d) 720 mmol to mol
- e) 0.060 kg to g
- f) $900 \text{ cm}^2 \text{ to m}^2$
- g) 20.0 g of NaOH to moles of NaOH
- h) 2.5 mol of sulfuric acid to grams
- i) 3.0 g of ice to moles of ice
- j) Given $P_{4(s)} + 5O_{2(g)} ----> 2P_2O_{5(s)}$

How many moles of phosphorus will react with 11.6 mol of oxygen gas?

How many moles of $O_{2(g)}$ will produce 6.12 mol of $P_2O_{5(s)}$?