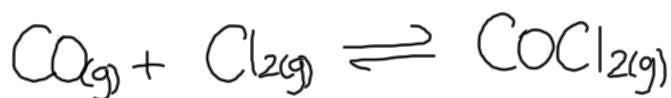


## Homework - Worksheet

$$V = 1.00 \text{ L}$$



init.  $x_5$  1.5 mol

$$C = \frac{n}{V}$$

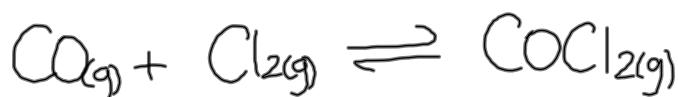
• eqm. 1.75 mol 0.70 mol 0.80 mol

1.75 mol/L 0.70 mol/L 0.80 mol/L

a) % rxn =  $\frac{\text{exp.}}{\text{theor.}} \times 100\%$     % rxn =  $\frac{0.80 \text{ mol}}{1.50 \text{ mol}} \times 100\%$     53%

Find max. product

$$1.5 \text{ mol Cl}_2 \times \frac{1 \text{ mol COCl}_2}{1 \text{ mol Cl}_2} = 1.5 \text{ mol COCl}_2$$



$$K = \frac{[\text{COCl}_{2(g)}]}{[\text{CO}_{(g)}][\text{Cl}_{2(g)}]}$$

$$K = \frac{[0.80]}{[1.75][0.70]} = 0.65$$

Reactant favoured

# Worksheet

EXERCISE #7, 8 p. 557  
#9, 10 p. 558