#### Chemistry Unit 15: Chemical Equilibrium Worksheet

#### Practice 15.1 Writing Equilibrium Equations

Write the equilibrium expressions  $(K_{oo})$  for the following reactions

- 2CO(g) ← C(s) + CO₂(g)
- N<sub>2</sub>O<sub>b</sub>(g) ↔ 2NO<sub>2</sub>(g).
- 2lCl(g) ↔ I₂(g) + Cl₂(g),
- Fe<sub>2</sub>O<sub>3</sub>(s) + 3H<sub>2</sub>(g) ↔ 2Fe(s) + 3H<sub>2</sub>O(g)
- 2CO(g) + 4H<sub>2</sub>O(g) ↔ 3O<sub>2</sub>(g) + 2CH<sub>4</sub>(g)
- 6.  $P_d(s) + 6NO(g) \leftrightarrow P_dO_d(s) + 3N_2(g)$

#### 15.2 Calculating Equilibrium Constants

Be sure to write out the equilibrium (K<sub>va</sub>) expression for each problem before trying to solve it!

1. What is the equilibrium expression for the following reaction?

$$SmO_2(s) + 2CO(g) \leftrightarrow Sm(s) + 2CO_2(g)$$

- At equilibrium the following concentrations are recorded: 20.0 M of H<sub>2</sub>, 18.0 M of CO<sub>2</sub>, 12.0 M H<sub>2</sub>O, and 5.9 M of CO at 427 °C. What is the value of K<sub>600</sub> at this temperature for the following reaction? CO<sub>2</sub>(g) + H<sub>2</sub>(g) → CO(g) + H<sub>2</sub>O(g)
- At equilibrium a mixture of N<sub>2</sub>, H<sub>2</sub>, and NH<sub>3</sub> gas at 500°C is determined to consist of 0.602 M N<sub>2</sub>, 0.420 M H<sub>2</sub>, and 0.113 M of NH<sub>3</sub>. What is the equilibrium constant at this temperature? Does this equilibrium favor the reactants or the products? N<sub>2</sub>(g) + 3H<sub>2</sub>(g) ← 2NH<sub>3</sub>(g)
- Given the equilibrium concentrations of 0.15 M NO, 0.12 M H₂ and 1.6 M N₂, Calculate the equilibrium constant for the following reaction. Does this reaction favor the reactants or the products?
  2NO(g) = 2H₂(g) ↔ N₂(g) = 2H₂O(l)
- What is the equilibrium constant for the following reaction if the equilibrium concentrations for the gases are 0.3 M for C<sub>2</sub>H<sub>6</sub>, 0.6 M for O<sub>2</sub>, 1.3 M for CO<sub>2</sub> and 1.8 M for H<sub>2</sub>0? Does the reaction favor the reactions or products?
  2C<sub>2</sub>H<sub>6</sub>(g) + 7O<sub>2</sub>(g) 4CO<sub>2</sub>(g) + 6H<sub>2</sub>O(g)
- Nitrogen dioxide reacts to form dinitrogen tetraoxide. What is the equilibrium concentration of N<sub>2</sub>O<sub>n</sub> if the K<sub>eq</sub> = 4.70 and the equilibrium concentration of NO<sub>2</sub> is 0.0310 M?
  2NO<sub>2</sub>(g) → N<sub>2</sub>O<sub>4</sub>(g)

# <u>Calculating Equilibrium Constant Chem Worksheet 18 3</u> <u>Answers</u>

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