At a high temperature, 0.50 mol of HBr was placed in a 1.0 L container and allowed to decompose according to the reaction:

$$2HBr(g) \rightleftharpoons H_{2(g)} + Br_{2(g)}$$

At equilibrium the [Br<sub>2</sub>] was measured to be 0.13 M. What is K<sub>eq</sub> for this reaction at this temperature?

-	2HBr =	= H2 +	Br2
	0.50	0	0
[C3]	-0-26	+0.13	+0.13
IE]	0.24	0.13	0.13

Keg. =	IH2][Br]2	$=\frac{(0.13)^2}{(0.24)^2}$	=0.29

Answer Keg = 0.29

 When 1.0 mol of NH<sub>3(g)</sub> and 0.40 mol of N<sub>2(g)</sub> are placed in a 5.0 L vessel and allowed to reach equilibrium at a certain temperature, it is found that 0.78 mol of NH<sub>3</sub> is present. The reaction is:

2NH3(g) = 3H2(g) + N2(g)

Initial [NH3] = 1.0 mol = 0.20 M Initial [N2] = 0.40 mol = 0.080 M

Equil [NH3] = 0.78 mol = 0.156 M 2NH2 = 3 H2 + N2

	dNH3 &	= 3 Na	+ N2
[I]	0.20	0	0.080
EC3	-0.044	+0.066	+0.022
LEJ.	0.156	0.066	0.102

a) Calculate the equilibrium concentrations of all three species.

[NH<sub>3</sub>] - 0.16 M [H<sub>2</sub>] - 0.066 M [N<sub>2</sub>] - 0.10 M

b), Calculate the value of the equilibrium constant at this temperature. (use unrounded cones, then round to 2503)

 $\text{Keq} = \frac{\text{EH}_2 \text{J}^3 \text{EN}_2 \text{J}}{\text{ENH}_3 \text{J}^2} = \frac{(0.066)^3 (0.102)}{(0.156)^2} = 0.0012$ Answ

Answer 1.2×10-3

c) How many moles of H<sub>2</sub> are present at equilibrium?

0.066 M x 5.0 L = 0.33 mal

Answer 0.33 mol

d) How many moles of N<sub>2</sub> are present at equilibrium?

0.102 M x 5.0 L = 0.51 mal

Answer 0.51 mol

## **Modeling Chemistry Answer Sheet Unit 3**

**Julia Schneider** 

**Modeling Chemistry Answer Sheet Unit 3:** 

#### Reviewing Modeling Chemistry Answer Sheet Unit 3: Unlocking the Spellbinding Force of Linguistics

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