**pH Problem Solving Diagram**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_Date\_\_\_\_\_\_\_\_**

Problems for pH and pOH

**1. Calculate the pH of the following solutions:**

a) [H+] = 3.95 105 M

b) [OH] = 8.74 102 M

c) pOH = 3.6

d) [H+] = 8.74 1012 M

e) [H+] = 1.00 107 M

f) [OH-]= 1.00 107M

g) pOH = 12.5

**2. Calculate the pOH of the following solutions:**

a) [OH-]= 4.7 103 M

b) [H+] = 2.79 109 M

c) pH = 3.8

d) [OH-] = 1.05 104M

e) [H+] = 9.5 1011 M

**3. Calculate the [H+] for the following solutions:**

a) pH = 7.0

b) pOH = 2.59

c) pH = 12.6

d) pOH = 1.46

**4. Calculate the [OH-]for the following solutions:**

a) pH = 3.58

b) pOH= 9.47

c) pH= 11.45

d) pOH = 1.34