## Worksheet: More Fun with pH

Name\_\_\_\_\_

Show all work and circle your final answer.

1. What is the pH of a 0.020M HCl solution?

2. Determine the pH of a 0.035M  $H_2SO_4$  solution.

3. The pH of a 0.010M Mg(OH)<sub>2</sub> solution is \_\_\_\_\_.

4. Human blood has a pH of 7.4. Calculate both the the  $[H^+]$  and  $[OH^-]$  concentration.

- 5. The greater the  $[H^+]$  concentration, the (higher, lower) the pH.
- 6. An aqueous base has a pH of 8.1. Another has a pH of 10. Which solution has the larger concentration of  $[OH^{-}]$  ions?
- 7. If a solution is (acidic, neutral, basic) the  $[H^{+}]$  concentration equals the  $[OH^{-}]$  concentration.