EXTRA PRACTICE: pH & pOH

- 1. What is $[OH^{-}]$ in saturated limewater if $[H_{3}O^{+}] = 3.98 \times 10^{-13} M$? Is limewater acidic, basic, or neutral?
- 6. What is $[H_3O^+]$ in canned peaches if $[OH^-] = 3.16 \times 10^{-11} M$? Are peaches acidic, basic, or neutral?

- 2. What is $[H_3O^+]$ in a wheat flour-and-water solution if $[OH^-] = 1.0 \times 10^{-8}M$? Is wheat flour-and-water acidic, basic, or neutral?
- 7. What is [OH⁻] in a sample of 0.1*M* borax if $[H_3O^+] = 6.31 \times 10^{-10}M$? Is borax acidic, basic, or neutral?

- 3. What is $[OH^{-}]$ in a potato-and-water solution if $[H_{3}O^{+}] = 1.6 \times 10^{-6}M$? Is potato-and-water acidic, basic, or neutral?
- 8. What is $[H_3O^+]$ in farm fresh eggs if $[OH^-] = 6.5 \times 10^{-7} M$? Are eggs acidic, basic, or neutral?

- 4. What is $[H_3O^+]$ in a solution of 0.1M ammonia if $[OH^-] = 1.26 \times 10^{-3}M$? Is ammonia acidic, basic, or neutral?
- 9. What is $[OH^-]$ in 0.1M bicarbonate of soda if $[H_3O^+] = 3.98 \times 10^{-9}M$? Is bicarbonate of soda acidic, basic, or neutral?

- 5. What is $[OH^{-}]$ in a pat of butter if $[H_{3}O^{+}] = 6.0 \times 10^{-7}M$? Is butter acidic, basic, or neutral?
- 10. During the course of the day, human saliva varies between being acidic and basic. What is $[H_3O^+]$ in "morning" saliva if $[OH^-] = 3.16 \times 10^{-8} M$? Is saliva at this point acidic, basic, or neutral?

