

Name \_\_\_\_\_

## Chemical Formulas of Acids and Bases Answer Key

1. The chemical formula for hydrochloric acid is HCl.
2. The chemical formula for sulfuric acid is H<sub>2</sub>SO<sub>4</sub>.
3. A conjugate acid-base pair consists of two species that differ by the presence or absence of a proton (H<sup>+</sup>).
4. The pH is 2. (Note:  $\text{pH} = 14 - \text{pOH}$ )
5. Strong acids completely dissociate in water, while weak acids only partially dissociate.
6. Phenolphthalein is colorless in acidic solutions and turns pink or red in basic solutions.
7. A buffer solution is a solution that resists changes in pH when small amounts of acid or base are added.
8. The pH of a neutralization reaction between a strong acid and a strong base is 7.
9. The pOH is 8. (Note:  $\text{pOH} = -\log[\text{OH}^-]$ )
10. Antacids are used to neutralize excess stomach acid and provide relief from heartburn or indigestion.