

pH Practice Worksheet

- 1) What is the pH of a solution that contains 25 grams of hydrochloric acid (HCl) dissolved in 1.5 liters of water?
- 2) What is the pH of a solution that contains 1.32 grams of nitric acid (HNO₃) dissolved in 750 mL of water?
- 3) What is the pH of a solution that contains 1.2 moles of nitric acid (HNO₃) and 1.7 moles of hydrochloric acid (HCl) dissolved in 1000 liters of water?
- 4) If a solution has a [H⁺] concentration of 4.5×10^{-7} M, is this an acidic or basic solution? Explain.
- 5) An acidic solution has a pH of 4. If I dilute 10 mL of this solution to a final volume of 1000 mL, what is the pH of the resulting solution?