

wkst: 180

For each of the problems below, assume 100% dissociation.

1.
 - A. Write the equation for the dissociation of hydrochloric acid.
 - B. Find the pH of a 0.00476 M hydrochloric acid solution.

2.
 - A. Write the equation for the dissociation of sulfuric acid.
 - B. Find the pH of a solution that contains 3.25 g of H_2SO_4 dissolved in 2.75 liters of solution.

3.
 - A. Write the equation for the dissociation of sodium hydroxide.
 - B. Find the pH of a 0.000841 M solution of sodium hydroxide.

4.
 - A. Write the equation for the dissociation of aluminum hydroxide.
 - B. If the pH is 9.85, what is the concentration of the aluminum hydroxide solution?

5.
 - A. Write the equation for the dissociation of calcium hydroxide.
 - B. If the pH is 11.64 and you have 2.55 L of solution, how many grams of calcium hydroxide are in the solution?