

Unit 7l Practice Problems II pH calculations

Name:

Date:

Work each of the followin	g problems. Show all wo	ork and circle	your final answer.

1.	What is the pH of a 0.020M HCl solution?
2.	Determine the pH of a 0.035M $\rm H_2SO_4$ solution.
3.	The pH of a 0.010M ${\rm Mg(OH)}_2$ solution is
4.	Human blood has a pH of 7.4. Calculate both 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.