

Skill Builder**Chapter 10****BLM 10-3****pH Calculations****Goal**

To practice pH calculations.

What To Do

Complete the following table:

1.	Substance	$[\text{H}_3\text{O}^+]$	pH	Acid/base or neutral
(a)	Household ammonia	1.25×10^{-12}		
(b)	tomatoes		4.2	
(c)		4.0×10^{-8}		basic
(d)		1.0×10^{-7}	7	

2. For each of the substances (a)–(d) indicate if $[\text{H}_3\text{O}^+]$ or $[\text{OH}^-]$ is in greater concentration.
- (a) _____
- (b) _____
- (c) _____
- (d) _____
3. For each of the substances (a)–(d) indicate if it is a strong or weak acid or base or neutral.
- (a) _____
- (b) _____
- (c) _____
- (d) _____
4. (a) Suppose you were given 1M hydrochloric acid. Calculate its $[\text{H}_3\text{O}^+]$ and pH.
- _____
- _____
- (b) What type of acid is it? _____