

**Acids & Bases Ws #4: pH and pOH**

1. Calculate the pH for the following solutions **and** identify as an acid or base

	Ion concentration	pH	Acid or Base
a.	$[H^+] = 6.5 \times 10^{-11}$		
b.	$[H^+] = 3.3 \times 10^{-3}$		
c.	$[H^+] = 5.5 \times 10^{-6}$		
d.	$[H^+] = 5.2 \times 10^{-10}$		

2. Calculate the pH for the following solutions **and** identify as an acid or base

	Ion concentration	pOH	pH	Acid or Base
a.	$[OH^-] = 3.4 \times 10^{-6}$			
b.	$[OH^-] = 2.6 \times 10^{-4}$			
c.	$[OH^-] = 8.3 \times 10^{-8}$			
d.	$[OH^-] = 4.7 \times 10^{-8}$			

3. Fill in the table

	pH	Acid or Base	pOH	$[H^+]$	$[OH^-]$
a.	3.80				
b.	2.25				
c.	13.5				
d.	5.86				
e.	3.90				
f.	3.69				
g.	6.66				
h.	11.5				

