

Name : _____

pH and pOH Worksheet

Fill in the missing information in the table below.

pH	[H ₃ O ⁺]	pOH	[OH ⁻]	Acid or Base?
	1.66 × 10 ⁻⁴ M			
			2.57 × 10 ⁻¹¹ M	
		5.19		
			4.88 × 10 ⁻⁶ M	
	3.47 × 10 ⁻⁹ M			
12.1				
			7.24 × 10 ⁻³ M	
	3.98 × 10 ⁻⁴ M			
10.91				
			1.35 × 10 ⁻⁹ M	
4.06				
	3.89 × 10 ⁻⁷ M			
		9.84		
	1.06 × 10 ⁻¹ M			
10.18				
		6.07		
			1.12 × 10 ⁻⁷ M	
	4.73 × 10 ⁻¹⁰ M			
12.67				
			9.87 × 10 ⁻³ M	
		2.32		
7.04				
	1.74 × 10 ⁻² M			
			5.39 × 10 ⁻¹² M	

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pH and pOH Worksheet

Fill in the missing information in the table below.

pH	[H ₃ O ⁺]	pOH	[OH ⁻]	Acid or Base?
3.78	1.66 × 10 ⁻⁴ M	10.22	6.03 × 10 ⁻¹¹ M	Acid
3.41	3.89 × 10 ⁻⁴ M	10.59	2.57 × 10 ⁻¹¹ M	Acid
8.81	1.55 × 10 ⁻⁹ M	5.19	6.46 × 10 ⁻⁶ M	Base
8.69	2.04 × 10 ⁻⁹ M	5.31	4.88 × 10 ⁻⁶ M	Base
8.46	3.47 × 10 ⁻⁹ M	5.54	2.88 × 10 ⁻⁶ M	Base
12.1	8.45 × 10 ⁻¹³ M	1.90	1.26 × 10 ⁻² M	Base
11.86	1.38 × 10 ⁻¹² M	2.14	7.24 × 10 ⁻³ M	Base
3.40	3.98 × 10 ⁻⁴ M	10.6	2.31 × 10 ⁻¹¹ M	Acid
10.91	1.23 × 10 ⁻¹¹ M	3.09	8.13 × 10 ⁻⁴ M	Base
5.13	7.49 × 10 ⁻⁶ M	8.87	1.35 × 10 ⁻⁹ M	Acid
4.06	8.71 × 10 ⁻⁵ M	9.94	1.15 × 10 ⁻¹⁰ M	Acid
6.41	3.89 × 10 ⁻⁷ M	7.59	2.57 × 10 ⁻⁸ M	Acid
4.16	6.92 × 10 ⁻⁵ M	9.84	1.45 × 10 ⁻¹⁰ M	Acid
0.98	1.06 × 10 ⁻¹ M	13.0	1.00 × 10 ⁻¹³ M	Acid
10.18	6.61 × 10 ⁻¹¹ M	3.82	1.51 × 10 ⁻⁴ M	Base
7.93	1.17 × 10 ⁻⁸ M	6.07	8.53 × 10 ⁻⁷ M	Base
7.05	8.91 × 10 ⁻⁸ M	6.95	1.12 × 10 ⁻⁷ M	Base
9.33	4.73 × 10 ⁻¹⁰ M	4.67	2.14 × 10 ⁻⁵ M	Base
12.67	2.14 × 10 ⁻¹³ M	1.33	4.68 × 10 ⁻² M	Base
12.0	1.0 × 10 ⁻¹² M	2.01	9.87 × 10 ⁻³ M	Base
11.68	2.09 × 10 ⁻¹² M	2.32	4.79 × 10 ⁻³ M	Base
7.04	9.22 × 10 ⁻⁸ M	6.96	1.10 × 10 ⁻⁷ M	Base
1.76	1.74 × 10 ⁻² M	12.24	5.75 × 10 ⁻¹³ M	Acid
2.70	2.00 × 10 ⁻³ M	11.3	5.39 × 10 ⁻¹² M	Acid