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| acid math  CλeMis+ry: http://genest.weebly.com  Stop in for help every day at lunch and Tues, &Thurs after school!  Test 6 is Friday May 27 (short period); study the new material learned from May 9th through Wednesday May 25th. |  | Name\_\_\_\_\_\_\_\_\_  Period\_\_\_\_\_\_\_\_ |

1. If a beaker contains 0.00000593 moles of H+ ions, in 30.0 mL of water,
2. What is the [H+]?
3. what is the pH?
4. (Memorized Formula #1) What is the mathematical definition of pH (give the formula)?
5. (Memorized Formula #2) What two concentrations always give 1x10-14 when multiplied together?
6. **If the concentration of [H+] is 2.33x10-9, calculate the concentration of [OH-]**

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| Start by writing an appropriate formula. Circle the unknown… | Then rearrange to get the unknown alone. | Plug in the known values and solve. |

1. If the concentration of [H+] is 7.30x10-4, calculate the concentration of [OH-]
2. If the concentration of [H+] is 7.30x10-4, calculate the pH
3. \*\* If the concentration of [H+] is 2.33x10-9, calculate the pH and pOH
4. If the concentration of [OH-] is 2.33x10-9, find the [H+] and then calculate the pH (you will need two formulas from your memorized list of formulas)