Unit 9 – Chapter 15: Ac	cid-Base Ed	guilibrium 8	& Buffers
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Assignment #3: 3 More Buffer Problems

Period _____

- 1) Calculate the pH of each of the following solutions
 - a. 0.100 M propanoic acid (HC₃H₅O₂, $K_a = 1.3 \times 10^{-5}$)
 - b. 0.100 M sodium propanoate (NaC₃H₅O₂)
 - c. pure water
 - d. A mixture containing 0.100 M $HC_3H_5O_2$ and 0.100 M $NaC_3H_5O_2$

2) Calculate the pH after 0.020 moles HCl is added to 1.00 L of each solution in #1

3) Calculate the pH after 0.020 moles of NaOH is added to 1.00 L of each solution in #1.