CH 101 Calorimetr	у
Due November 21,	2011

Name			
Section			

1.	A 5.20 g sample of sodium hydroxide is added to 105g of water. The temperature
	changes from 22.0 °C to 28.5 °C.

- a. Is this reaction exothermic or endothermic? Why?
- b. What is  $\Delta T$ ?
- c. What is the sign of q for the surroundings? And for the system? Does this make sense (compared to your answer for a) What are you calculating the heat change for?
- d. If you assume that the specific heat of the solution is 4.18 J/g. °C what is the heat change q for this reaction?

e. What is the enthalpy change in kJ/mol for the solution of NaOH?

f. Why do you think the solution gets warmer? (Where is the energy coming from?)