

- 1) When properly balanced, the coefficient for hydrochloric acid (HCl) would be?
 $\underline{\quad} \text{Al} + \underline{\quad} \text{HCl} \rightarrow \underline{\quad} \text{AlCl}_3 + \underline{\quad} \text{H}_2$
- 2) The potential energy diagram for a chemical reaction is shown below



Each interval on the axis labeled "Potential Energy (kJ)" represents 40 kilojoules. What is the heat of reaction (ΔH)?

- 3) The general equation shown is a reaction that represents what type of reaction? _____ is this reaction endothermic or exothermic? (circle one)



- 4) Write a balanced equation for the word equation shown below:
 Aluminum + Sulfuric acid \rightarrow Aluminum sulfate + hydrogen gas

- 5) A process that absorbs heat is: endothermic or exothermic (circle one) Would the products have more energy or less energy than the reactants?
- 6) The two beakers of boiling water shown below are on hot plates set at different settings. However, the water in both beakers is at the same temperature. How is the incoming energy from the hot plates being used by the water if it is not increasing the temperature?



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