

This quiz is take-home and open book, and it is intended that all members of the group contribute to completing it. It is a violation of the Academic Honor Code to sign a quiz that you did not work on. **The quiz is due at the end of class on Thursday, March 18.**

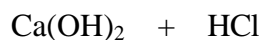
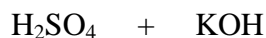
List names in alphabetical order, and give social security numbers! Put names on all pages, and staple pages together

Points

- (2) 1. For each of the following substances, write the dissociation reaction forming ions in aqueous solution, and classify the substance as an **acid** or a **base**.



- (3) 2. Write the **neutralization** reaction for the following reactions between an acid and a base:



List names in alphabetical order. **Be sure to staple pages together!**

- (2) 3. Calculate the **molarity** of NaCl in a solution prepared by adding 3.26 grams of NaCl to enough water to make a volume of 725 mL
- (4) 4. Calculate the **molarity** of H^+ produced by dissolving the following acids in enough water to make 625 mL of solution:
- (a) 45.1 grams of H_2SO_4 (assuming complete dissociation)
 - (b) 32.2 grams of HI
- (4) 5. Calculate the **molarity** of OH^- produced by dissolving the following bases in enough water to make 375 mL of solution:
- (a) 29.6 grams of NaOH
 - (b) 42.1 grams of $\text{Sr}(\text{OH})_2$.