Practice Quiz (Chem 140) Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Instructions: Complete the following using *no notes and no friends*. Show your work!!!**

When hydrogen gas reacts with chlorine gas, hydrogen chloride gas is formed. Write the balanced chemical reaction below: *(Note: if hydrogen chloride gas was dissolved into water we would call it hydrochloric acid)…don’t forget physical states!*

What is the molecular mass of hydrogen gas? *(significant figures count, show math)*

What is the molecular mass of chlorine gas? *(significant figures count, show math)*

If 10.2 grams of hydrogen gas reacts with excess chlorine gas, how many grams of hydrogen chloride gas will be formed? *Show all your work…meaning, I must see all three intermediate answers in your work.*