**Chem 1013: mini-quiz #4: atomic book keeping and terms Wednesday 30 Jan**

Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.1. Chemical or physical ? (circle your choice)**

**Snipping toenails chemical physical**

**Dissolving Kool Aid (sugar) in water chemical physical**

**Nitroglycerin explosion chemical physical**

**4.2. The atomic view of chemical reaction is that chemical \_bonds\_\_\_\_ in the reactants are broken and rearranged into products**

4.3. The balanced reaction describing the chemical reaction occurring in a Weber outdoor propane grill is:

propane

 C3H8 + 5O2 🡪 3CO2 +4H2O

1. How many molecules of O2 are involved in the balanced reaction ? \_\_5\_\_\_\_
2. How many atoms of H are involved in the balanced reaction ? \_\_\_8\_\_
3. How many atoms of O are involved in the balanced reaction ? \_\_\_10\_\_\_
4. How many molecules of water (H2O) are formed ? \_\_\_\_4\_\_\_