Warmup Slip

Directions: Turn the following into balanced equations by filling in the blanks with the correct coefficients, formulas of ions or solids, and names.

Cation Anion Formula Name

1. \_\_\_ Cu+ + \_\_\_ SO42- → \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_ Pb2+ + \_\_\_ Cl– → \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ → AlCl3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ → Mg(NO3)2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ → \_\_\_\_\_\_\_\_\_ iron (III) sulfide
6. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ → \_\_\_\_\_\_\_\_\_ copper (II) nitrate
7. \_\_\_ Cu2+ + \_\_\_ OH– → \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| *Gas volume and limiting reagent*  CλeMis+ry: http://genest.weebly.com  Stop in for help every day at lunch and Tues &Thurs after school! | http://necc-controls.com/images/category/fittings/calibration-tools_img_6.jpg | Name\_\_\_\_\_\_\_\_\_\_\_\_\_  Period\_\_\_\_\_\_\_\_\_\_\_\_\_ |

1. What is the volume of one mole of *any* gas at STP?
2. How many grams of potassium nitrate will you need to make a solution that has a volume of 1.20 L and has a molarity of 0.75M ?

***Directions: Turn the following into balanced equations by filling in the blanks with the correct coefficients, formulas of ions or solids, and names.***

Cation Anion Formula Name

1. \_\_\_\_\_ + \_\_\_\_\_\_\_ → BaI2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_ + \_\_\_\_\_\_ → (NH4)2SO3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. .\_\_\_\_\_\_ + \_\_\_\_\_\_\_ → \_\_\_\_\_\_\_\_\_ silver oxide
4. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ → \_\_\_\_\_\_\_\_\_ iron (III) sulfide
5. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ → \_\_\_\_\_\_\_\_\_ magnesium chloride
6. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ -→ \_\_\_\_\_\_\_\_\_ calcium carbonate
7. \_\_\_ Mg2+ + \_\_\_ NO2– -→ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. . \_\_\_ Cu2+ + \_\_\_ OH– → \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. \_\_\_\_\_\_ + \_\_\_\_\_\_\_ → K2CrO4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. How many molecules are in 22.4 liters of steam?
11. What is the molarity of solution made by dissolving 0.740 moles of NH4Br in enough water to make 840. mL of solution?
12. What is the volume of 6.02x1023 molecules of Cl2 gas at STP?