Name _____ Honors Chemistry ___/___/___

Homework Part I: Write the formulas for each of the following compounds. All versions of naming are used (binary ionic compounds, polyatomic compounds, Common and Stock naming systems).

1. iron(III) oxide
Fe_2O_3

2. calcium sulfide
CaS

3. nickel(III) iodide
NiI_3

4. rubidium nitrate
$RbNO_3$

5. mercuric oxide
HgO

6. cupric chloride
$CuCl_2$

7. lead(IV) chlorate
$Pb(ClO_3)_4$

8. aluminum sulfite
$Al_2(SO_3)_3$

9. potassium nitride
K_3N

10. iron(III) hydrogen sulfate
$Fe(HSO_4)_3$

11. ferric carbonate
$Fe_2(CO_3)_3$

12. magnesium citrate
$Mg_3(C_6H_5O_7)_2$

13. lead(II) phosphite
$Pb_3(PO_3)_2$

14. iron(II) dichromate
$FeCr_2O_7$

15. cuprous hydroxide
CuOH

16. copper(II) thiosulfate
CuS_2O_3

17. lithium chloride
LiCl

18. cupric bicarbonate
$Cu(HCO_3)_2$

19. nickel(II) nitrate
$Ni(NO_3)_2$

20. silver cyanide
AgCN

21. calcium chlorate
$Ca(ClO_3)_2$

22. ammonium sulfate
$(NH_4)_2SO_4$

23. aluminum chlorate
$Al(ClO_3)_3$

24. zinc sulfite
$ZnSO_3$

25. tin(IV) chloride
$SnCl_4$

26. silver sulfide
Ag_2S

27. antimony(V) chloride
$SbCl_5$

Homework Part II: Write the correct name for the following compounds. **When applicable, use BOTH the Stock and Common naming systems.**

1. HgF_2
mercury(II) fluoride
mercuric fluoride

2. NaCl
sodium chloride

3. $Ca(MnO_4)_2$
calcium permanganate

4. $FeHPO_4$
iron(II) biphosphate
ferrous biphosphate

5. $RbClO_4$
rubidium perchlorate

6. $BeCO_3$
beryllium carbonate

7. ZnO
zinc oxide

8. $Mg(HCO_3)_2$
magnesium bicarbonate

9. $B(OH)_3$
boron hydroxide

10. $Sn_3(PO_3)_2$
tin(II) phosphite
stannous phosphite

11. NH_4IO
ammonium hypoiodite

12. $SrCO_3$
strontium carbonate

13. $ZnCl_2$
zinc chloride

14. $Ba_3(PO_3)_2$
barium phosphite

15. AgH_2PO_4
silver dihydrogen phosphate

16. Fe_2O_3
iron(III) oxide
ferric oxide

17. Hg_2Cl_2
mercury(I) chloride
mercurous chloride

18. CoF_3
cobalt(III) fluoride
cobaltic fluoride

19. $Fe(NO_2)_2$
iron(II) nitrite
ferrous nitrite

20. K_2SO_4
potassium sulfate

21. $Ba(HSO_4)_2$
barium bisulfate

22. $Sn(HCO_3)_4$
tin(IV) bicarbonate
stannic bicarbonate

23. $NaMnO_4$
sodium permanganate

24. Ag_2O
silver oxide

25. Cu_2CrO_4
copper(I) chromate
cuprous chromate

26. $Ca(ClO_4)_2$
calcium perchlorate

27. AlI_3
aluminum iodide