

Name _____

(24 points)

Chapter 3 Worksheet #1

Directions: Name the following compounds or provide formulas as needed. * Items with asterisk may contain polyatomic ions that you were not given in lecture. Look them up. Follow the correct naming/formula procedure based upon the type of compound given; name ionic compounds appropriately and covalent compounds appropriately.

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|---|-------|------------------------------|-------|
| 1. Na_2SO_4 | _____ | 25. copper (I) oxide | _____ |
| 2. CaO | _____ | 26. iron (III) cyanide | _____ |
| 3. CuCl | _____ | 27. sodium phosphate | _____ |
| 4. CuCl_2 | _____ | 28. calcium bicarbonate | _____ |
| 5. Cr_2O_3 | _____ | 29. arsenic trichloride | _____ |
| 6. Cs_2O | _____ | 30. lead (II) acetate | _____ |
| 7. LiBr | _____ | 31. ammonium chloride | _____ |
| 8. $\text{NaC}_2\text{H}_3\text{O}_2$ | _____ | 32. iron (II) nitrite | _____ |
| 9. N_2O | _____ | 33. sulfur hexafluoride | _____ |
| 10. AlPO_4 | _____ | 34. ammonium sulfite | _____ |
| 11. AsCl_3 | _____ | 35. chromium (III) hydroxide | _____ |
| 12. $\text{Fe}(\text{C}_2\text{H}_3\text{O}_2)_2$ | _____ | 36. xenon tetraoxide | _____ |
| 13. BaCO_3 | _____ | 37. nitrogen trichloride | _____ |
| 14. HgSO_3 | _____ | 38. * hydrogen peroxide | _____ |
| 15. $\text{Sr}(\text{HSO}_4)_2$ | _____ | 39. aluminum hydroxide | _____ |
| 16. SnO_2 | _____ | 40. silver oxide | _____ |
| 17. KNO_2 | _____ | 41. lead (II) acetate | _____ |
| 18. N_2O_5 | _____ | 42. chromium (III) sulfide | _____ |
| 19. CS_2 | _____ | 43. dinitrogen trioxide | _____ |
| 20. LiCN | _____ | 44. barium sulfate | _____ |
| 21. NH_4NO_2 | _____ | 45. copper (II) bromide | _____ |
| 22. CrPO_4 | _____ | 46. carbon dioxide | _____ |
| 23. CaCO_3 | _____ | 47. potassium nitrate | _____ |
| 24. $\text{Zn}(\text{HCO}_3)_2$ | _____ | 48. * cesium perchlorate | _____ |