

Name _____

Honors Chemistry

___/___/___

Binary Ionic Compounds & Ionic Compounds Using Polyatomic Ions - Answers

Homework

Part I: Name each of the following below.

1. CaCl_2

Answer: calcium chloride

2. Mg_2C

Answer: magnesium carbide

3. RbAt

Answer: rubidium astatide

4. RaI_2

Answer: radium iodide

5. LiF

Answer: lithium fluoride

6. K_2Se

Answer: potassium selenide

7. NaBr

Answer: sodium bromide

8. Be_3As_2

Answer: beryllium arsenide

9. H_3N

Answer: hydrogen nitride

10. In_2S_3

Answer: indium sulfide

11. Fr_3P

Answer: francium phosphide

12. SrTe

Answer: strontium telluride

13. AlF_3

Answer: aluminum fluoride

14. HI

Answer: hydrogen iodide

15. CsI

Answer: cesium iodide

Part II: Write the formula of each binary ionic compound named below.

16. strontium fluoride

Answer: SrF_2

17. sodium phosphide

Answer: Na_3P

18. beryllium iodide

Answer: BeI_2

19. calcium bromide

Answer: CaBr_2

20. aluminum astatide

Answer: AlAt_3

21. lithium telluride

Answer: Li_2Te

22. magnesium arsenide

Answer: Mg_3As_2

23. potassium nitride

Answer: K_3N

24. rubidium carbide

Answer: Rb_4C

25. hydrogen chloride

Answer: HCl

26. cesium sulfide

Answer: Cs_2S

27. calcium selenide

Answer: CaSe

28. gallium oxide

Answer: Ga_2O_3

29. strontium selenide

Answer: SrSe

30. francium nitride

Answer: Fr_3N

31. When writing the formula or name of a binary ionic compound, which is written first? **CATION** or **ANION**

Homework

Part III: Write the formula of each ionic compound named below.

1. sodium sulfate

Answer: Na_2SO_4

2. cesium nitrate

Answer: CsNO_3

3. calcium hydroxide

Answer: Ca(OH)_2

4. strontium hexafluorosilicate

Answer: SrSiF_6

5. gallium permanganate

Answer: $\text{Ga(MnO}_4)_3$

6. beryllium citrate

Answer: $\text{Be}_3(\text{C}_6\text{H}_5\text{O}_7)_2$

7. hydrogen cyanide

Answer: HCN

8. aluminum hydrogen sulfate

Answer: $\text{Al(HSO}_4)_3$

9. lithium perchlorate

Answer: LiClO_4

10. magnesium thiocyanate

Answer: Mg(SCN)_2

11. potassium tartrate

Answer: $\text{KC}_4\text{H}_4\text{O}_6$

12. rubidium borate

Answer: Rb_3BO_3

13. ammonium hypobromite

Answer: NH_4BrO

14. radium hydrogen oxalate

Answer: $\text{Ra(HC}_2\text{O}_4)_2$

15. francium tetraborate

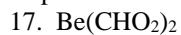
Answer: $\text{Fr}_2\text{B}_4\text{O}_7$

Part IV: Name each of the following ionic compounds.



Answer: sodium bicarbonate

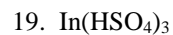
Or sodium hydrogen carbonate



Answer: beryllium formate

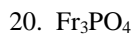


Answer: hydrogen peroxide

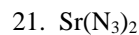


Answer: indium bisulfate

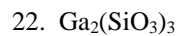
Or indium hydrogen sulfate



Answer: francium phosphate



Answer: strontium azide



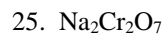
Answer: gallium silicate



Answer: aluminum arsenate



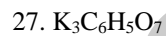
Answer: ammonium phosphate



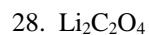
Answer: sodium dichromate



Answer: potassium permanganate



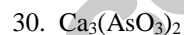
Answer: potassium citrate



Answer: lithium oxalate



Answer: cesium azide



Answer: calcium arsenite