

Formula Worksheet

Convert the following chemical names into their appropriate balanced formulas.

1. carbon disulfide
2. lead (IV) acetate
3. cesium periodate
4. boron trifluoride
5. Copper (I) iodide
6. antimony triiodide
7. copper (II) sulfate pentahydrate
8. iron (III) sulfate
9. dinitrogen monoxide
10. magnesium acetate tetrahydrate
11. oxygen difluoride
12. dihydrogen monoxide
13. calcium hydrogen phosphate
14. aluminum hypochlorite
15. thallium (I) oxalate
16. zinc arsenate
17. sodium phosphorus hexafluoride
18. nickel (II) bromide
19. silver perchlorate
20. rubidium cyanide
21. sulfur tetrachloride
22. ammonium dihydrogenphosphate
23. cobalt (II) nitrite
24. dinitrogen tetroxide
25. potassium chromium (III) sulfate dodecahydrate

Answers

- | | | |
|--|---------------------------------------|--|
| 1. CS_2 | 11. OF_2 | 21. SCl_4 |
| 2. $\text{Pb}(\text{C}_2\text{H}_3\text{O}_2)_4$ | 12. H_2O | 22. $\text{NH}_4(\text{H}_2\text{PO}_4)$ |
| 3. CsIO_4 | 13. CaHPO_4 | 23. $\text{Co}(\text{NO}_2)_2$ |
| 4. BF_3 | 14. $\text{Al}(\text{ClO})_3$ | 24. N_2O_4 |
| 5. CuI_2 | 15. $\text{Tl}_2\text{C}_2\text{O}_4$ | 25. $\text{KCr}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ |
| 6. SbI_3 | 16. $\text{Zn}_3(\text{AsO}_4)_2$ | |
| 7. $\text{CuSO}_4 \cdot \text{H}_2\text{O}$ | 17. NaPF_6 | |

- | | |
|---|----------------------|
| 8. $\text{Fe}_2(\text{SO}_4)_3$ | 18. NiBr_2 |
| 9. N_2O | 19. AgClO_4 |
| 10. $\text{Mg}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 4\text{H}_2\text{O}$ | 20. RbCN |

Convert the following balanced formulas into names.

1. BBr_3
2. PbS
3. NaClO_3
4. LiOH
5. Hg_2Cl_2
6. CCl_4
7. $\text{MgAl}(\text{H}_2\text{PO}_4)_5$
8. S_2Cl_2
9. AgN_3
10. KHSO_4
11. XeF_5
12. $\text{Ba}(\text{SCN})_2 \cdot 3\text{H}_2\text{O}$
13. $\text{Al}(\text{ClO}_4)_3$
14. KI
15. $\text{Hg}_3(\text{PO}_4)_2$
16. PbCrO_4
17. Al_4C_3
18. BrCl
19. Li_2O_2
20. RbNO_2
21. KMnO_4
22. $\text{Mg}(\text{HCO}_3)_2$
23. PCl_5
24. $\text{FeBr}_2 \cdot 4\text{H}_2\text{O}$
25. $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$
26. SbF_5
27. $\text{NaC}_2\text{H}_3\text{O}_2 \cdot 3\text{H}_2\text{O}$
28. SF_6

Answers

- | | |
|--|-----------------------------------|
| 1. Boron tribromide | 11. xenon pentafluoride |
| 21. potassium permanganate | |
| 2. lead (II) sulfide | 12. barium thiocyanate trihydrate |
| 22. magnesium hydrogencarbonate | |
| 3. sodium chlorate | 13. aluminum perchlorate |
| 23. phosphorus pentachloride | |
| 4. lithium hydroxide | 14. potassium iodide |
| 24. iron (II) bromide tetrahydrate | |
| 5. dimercury chloride | 15. mercury (II) phosphate |
| 25. ammonium dichromate | |
| 6. carbon tetrachloride | 16. lead (II) chromate |
| 26. antimony pentafluoride | |
| 7. magnesium aluminum dihydrogenphosphate
carbide | 17. aluminum |
| 27. sodium acetate trihydrate | |
| 8. disulfur dichloride | 18. bromine chloride |
| 28. sulfur hexafluoride | |
| 9. silver azide | 19. lithium peroxide |
| 10. potassium hydrogensulfate | 20. rubidium nitrite |