

Thoroughly Mixed Naming

Name:

Period:

For the following compounds, first decide if each is ionic or covalent, and then use the appropriate system to name the compound or write its formula.

Name/Formula	Classification (ionic or covalent)	Formula	Formula	Classification (ionic or covalent)	Name
1. lead (IV) bromide	I	$PbBr_4$	16. $KClO_3$	I	potassium chlorate
2. strontium phosphate	I	$Sr_3(PO_4)_2$	17. $BaCl_2$	I	barium chloride
3. copper (I) oxide	I	Cu_2O	18. CaO	I	calcium oxide
4. zinc hydroxide	I	$Zn(OH)_2$	19. Mg_3N_2	I	magnesium nitride
5. dichlorine monoxide	C	Cl_2O	20. CO	C	carbon monoxide
6. oxygen difluoride	C	OF_2	21. P_4O_6	C	tetraoxygenous phosphorus hexoxide
7. cesium oxide	I	Cs_2O	22. Cl_2O_6	C	dichlorine hexoxide
8. dichlorine pentoxide	C	Cl_2O_5	23. KOH	I	potassium hydroxide
9. boron tribromide	C	BBr_3	24. P_4S_3	C	tetraoxygenous phosphorus trisulfide
10. lead (II) dichromate	I	$PbCr_2O_7$	25. S_2Cl_2	C	disulfur dichloride
11. ammonia	C	NH_3	26. NCl_3	C	nitrogen trichloride
12. aluminum oxide	I	Al_2O_3	27. $Pb(CN)_2$	I	lead (II) cyanide
13. ammonium hydroxide	I	NH_4OH	28. Mn_2O_3	I	manganese (III) oxide
14. cadmium sulfide	I	CdS	29. N_2F_2	C	dinitrogen difluoride
15. dichlorine heptoxide	C	Cl_2O_7	30. NiS	I	nickel (II) sulfide