

**Assignment #2 – Compound Names and Formulas**  
**Multi-valent ions only**

A. Write the correct formula for the following compounds, all of which have been named using the modern Roman Numeral Method. The ionic charge is given after the first element (metallic) in Roman Numerals.

1. copper (II) oxide CuO
2. mercury (I) oxide Hg<sub>2</sub>O
3. gold (III) chloride AuCl<sub>3</sub>
4. thallium (III) bromide TlBr<sub>3</sub>
5. bismuth (V) oxide Bi<sub>2</sub>O<sub>5</sub>
6. terbium (III) oxide Tb<sub>2</sub>O<sub>3</sub>
7. uranium (VI) oxide UO<sub>3</sub>
8. protactinium (IV) bromide PaBr<sub>4</sub>
9. cerium (III) oxide Ce<sub>2</sub>O<sub>3</sub>
10. arsenic (V) sulphide As<sub>2</sub>S<sub>5</sub>

11. manganese (III) oxide Mn<sub>2</sub>O<sub>3</sub>
12. vanadium (II) bromide VBr<sub>2</sub>
13. niobium(V) oxide Nb<sub>2</sub>O<sub>5</sub>
14. titanium (III) oxide Ti<sub>2</sub>O<sub>3</sub>
15. titanium (III) nitride TiN
16. iron (II) oxide FeO
17. cobalt (II) phosphide Co<sub>3</sub>P<sub>2</sub>
18. tin (II) oxide SnO
19. thulium (II) bromide TmBr<sub>2</sub>
20. copper (II) bromide CuBr<sub>2</sub>

B. Name the compound using the Roman Numeral Method and balance the ionic charges.

1. SnCl<sub>4</sub> Tin (IV) Chloride
2. BiBr<sub>5</sub> Bismuth (V) Bromide
3. PoO<sub>2</sub> Polonium (IV) Oxide
4. PbI<sub>2</sub> Lead (II) Iodide
5. HgO Mercury (II) Oxide
6. HgCl Mercury (I) Chloride
7. Au<sub>2</sub>O<sub>3</sub> Gold (III) Oxide
8. FeCl<sub>2</sub> Iron (II) Chloride

9. PdF<sub>4</sub> Palladium (IV) Fluoride
10. Os<sub>2</sub>O<sub>3</sub> Osmium (III) Oxide
11. MoBr<sub>2</sub> Molybdenum (II) Bromide
12. VCl<sub>5</sub> Vanadium (V) Chloride
13. Mn<sub>2</sub>O<sub>3</sub> Manganese (III) Oxide
14. CoO Cobalt (II) Oxide
15. Np<sub>2</sub>O<sub>3</sub> Neptunium (III) Oxide
16. V<sub>2</sub>O<sub>5</sub> Vanadium (V) Oxide

# Molecular Geometry Packet Answers

**Gerardus Blokdyk**



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**Dissertation Abstracts International** ,2005      **Molecular Geometry** Ronald James Gillespie,1972-01-01      *The VSEPR Model of Molecular Geometry* Ronald James Gillespie,István Hargittai,1991-01      *Molecular geometry Second Edition* Gerardus Blokdyk,2018 Molecular geometry Second Edition

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