

1. Write the formula for each of the following compounds.

- a) potassium sulfate
- b) aluminum bromide
- c) calcium hydroxide

[1] _____

2. Which of the following are binary compounds?

- | | |
|-------------------|-----------------|
| lithium oxide | iron oxide |
| calcium phosphate | sodium chloride |

[2] _____

3. In each of the following, assume that an element X forms an ionic compound. What is the charge on the X ion in each compound?

- a) XBr_2
- b) X_2CO_3
- c) $(NH_4)_2X$

[3] _____

4. Write the name for each of the following compounds.

- a) LiI
- b) LiOH
- c) $\text{Ca}(\text{NO}_3)_2$

[4] _____

5. Give the name for the following molecular compounds.

- a) SF_6
- b) OF_2

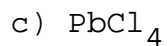
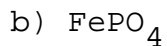
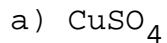
[5] _____

6. Write the formula for each of the following molecular compounds.

- a) diphosphorus trioxide
- b) dichlorine heptoxide

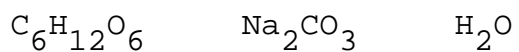
[6] _____

7. The metallic element in each of the following compounds has variable oxidation states. Write out the correct names of these compounds.



[7] _____

8. Which of the following compounds is/are already written in empirical form?



[8] _____

9. How many atoms of oxygen are represented by $4\text{NH}_4\text{NO}_3$?

[9] _____

10. How many total atoms are present in 9 molecules of sodium phosphate?

[10] _____