

## CHEMISTRY

## NAMING & FORMULAS WORKSHEET

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

- a) potassium carbonate
- b) aluminum iodide
- c) magnesium nitrate

2. Which of the following are binary compounds?

calcium oxide  
iron chloride  
potassium chloride  
sodium oxide

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)  $XC_2O_4$
- c)  $(NH_4)_2X$

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

- a) AgI
- b)  $NH_4OH$
- c)  $Ba(OH)_2$

5. Give the name for the following molecular compounds.

- a)  $N_2O$
- b)  $N_2O_5$

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

- a) diphosphorus pentoxide
- b) dichlorine heptoxide

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

- a)  $CuSO_4$
- b)  $FeBr_2$
- c)  $PbO_2$

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

$C_2H_4$                       NaI                       $NH_3$

9. How many atoms of oxygen are represented by  $3H_2O$ ?

10. How many total atoms are present in 4 molecules of sodium phosphate?