NAME: _____   PERIOD: _____   DATE: _____

Chemical Formulas Practice 3

Answer all questions as best you can. Use your notes to help.

PART ONE: Tell how many of each type of atom there are from the chemical formula.

1. SrO – How many Strontium? _____   How many Oxygen? _____

2. Rb_2S – How many Rubidium? _____   How many Sulfur? _____

3. Fe_2O_3 – How many Iron? _____   How many Oxygen? _____

PART TWO: Write out the chemical formula for the "ingredients" given.

4. Limestone is 1 Calcium, 1 Carbon, and 3 Oxygen - _____

5. Peroxide has 2 Hydrogen and 2 Oxygen – _____

6. Rust is 2 Iron and 3 Oxygen - _____

7. Sucrose has 12 Carbon, 22 Hydrogen, and 11 Oxygen - _____

PART THREE: Tell how many of each type of atom there are from the chemical formula.

8. $7 O_3$ How many Oxygen? _____

9. $4 K_2F_2$ How many Potassium? _____   How many Fluorine? _____

10. $4 Mg_2Cl_3$ How many Magnesium? _____   How many Chlorine? _____

PART FOUR: Write out the chemical formula for the "ingredients" given.

11. Silver oxide is made of 2 Silver and 1 Oxygen. *I want 5 molecules of it.* _____

12. Bleach is 1 Sodium, 1 Chlorine, and 1 Oxygen. *I want 2 molecules of bleach.* _____

13. Albite is 1 Sodium, 1 Aluminum, 3 Silicon, and 3 Oxygen, and…
          I want 12 molecules of albite!   _____

PART FIVE: Tell how many of each type of atom there are from the chemical formula.

14. Zinc Nitrite is $Zn(NO_2)_2$.   How many Zinc? _____

How many Nitrogen? _____   How many Oxygen? _____

15. Lead Antimonate is $Pb_3(SbO_4)_2$ How many Lead? _____

How many Antimony? _____   How many Oxygen? _____

16. Ammonium Sulfate is $(NH_4)_2SO_4$.   How many Nitrogen? _____

How many Hydrogen? _____   How many Sulfur? _____   How many Oxygen? _____

PART SIX: What coefficient will give the desired amount of the element? Put the correct coefficient in the blank.

Example: _____ H_2O – I want 6 Hydrogen

(If there were 3 H_2O it would be 3 (coefficient) x2 (subscript) = 6 Hydrogen so the answer is 3)

So: __3__ H_2O – I want 6 Hydrogen

17. _____ CO_2 - I want 10 Oxygen.

18. _____ $Al(NO_3)_3$ - I want 36 Oxygen.

19. _____ $C_3H_5(NO_3)_3$ - I want 10 Hydrogen.

20. _____ $Hg_3(AsO_4)_2$ - I want 6 Mercury.