Formula Writing and Naming for Covalent Compounds

Name: _____
Date: _____ Per: _____

Part I: There are three main rules one needs to follow in order to name molecular compounds. Working in groups of two to three, evaluate the three sets of molecular compound and generate a rule for each set. Then use your rules to answers to write the names of the molecular compounds in part II.

Rule 1: Use of Prefixes	Rule 2: Use of –ide	Rule 3: Use of mono
Diphosphorous pentoxide Dinitrogen tetroxide Tetraphosphorous hexoxide	Diphosphorous pentoxide Carbon dioxide Sulfur dibromide Oxygen difluoride	Carbon monoxide Dinitrogen monoxide Phosphorous trichloride Chloride dioxide
Rule 1:	Rule 2:	Rule3:

Part II: Write the chemical name for the following compounds using the rules generated in Part I.

1. N_2O_3 _____
2. SCl_2 _____
3. IF_5 _____
4. $SiCl_4$ _____
5. BCl_3 _____
6. CCl_4 _____
7. SO_2 _____
8. CO _____
9. Cl_2O_7 _____
10. CO_2 _____

Part III: Write the formulas for the following molecular compound names.

1. Phosphorous trifluoride _____
2. Tetrasulfur tetrafluoride _____
3. Chlorine monxide _____
4. Xenon trioxide _____
5. Bromine pentafluoride _____
6. Tetrarsenic decoxide _____
7. Krypton difluoride _____
8. Boron trifluoride _____
9. Dinitrogen pentasulfide _____
10. Xenon hexafluoride _____