Complete the following assignment in your class notebook with the heading: Molar Mass and Mole Conversions

Show all work, including correct units and sig figs. A form of the question must be included in your answer. Box final answer. No work = No credit!

A. Calculate the molar mass for each of the following compounds:

- 1. zinc oxide, ZnO
- 2. magnesium chloride, MgCl₂
- 3. water, H₂O
- 4. carbon dioxide, CO₂
- 5. sodium hypochlorite, NaClO
- 6. nitric acid, HNO₃
- 7. magnesium chlorate, Mg(ClO₃)₂
- 8. silver oxide, Ag₂O

B. Perform the following conversions, using proper dimensional analysis:

- 9. Find the mass of 0.89 mol CaCl₂
- 10. Find the mass of 1.112 mol of HF.
- 11. Determine the number of moles of C₅H₁₂ that are in 362.8 grams.
- 12.Find the mass of 0.159 mol of SiO₂
- 13. How many moles of hydrogen are in 12.35 grams of C₂H₄?
- 14. Determine the number of total atoms in 0.98 grams of N₂.
- 15. How many moles of fluorine are in 2.24 grams of OF₂?
- 16.How many total atoms are in 0.78 moles of N₂O?