Chapter 6 Practice 2 Ver A

1.	What is the	mass in	grams of	5.00	moles	of Fe	203?
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2. Find the mass, in grams, of 1.0 x 10^{23} molecules of N_2 .

3. How many molecules of SiF_4 are in 15.0 g of silicon tetrafluoride?

4. How many moles are in 38.12 grams of CO₂?

5. Rubbing alcohol was found to contain 60.0 % carbon, 13.4 % hydrogen, and 26.6 % oxygen. What is the empirical formula of rubbing alcohol?

6.	Calculate the empirical formula of the following compounds given their percent composition.
a.	a compound that is 68.4 $\%$ Cr and 31.6 $\%$ O
1.	
b.	a compound that is 63.5 % Ag, 8.2 % N, and 28.3 % O
7.	Given the following the empirical formulas and molar masses, what is the molecular formula of the following compounds.
a.	CH ₂ O, molar mass is 90 g/mol
b.	CFBrO, molar mass is 509.6 g/mol
c.	C ₂ OH ₄ , molar mass is 88.1 g/mol

- 8. Find the percent composition (by mass) of nickel (II) hydroxide.
- % Ni = ____
- % O = _____
- % H = _____

9. Find the percent composition (by mass) of nitric acid.

- % N = ____
- % O = ____
- % H = ____