Worksheet: Even More Mole Problems   Name_____

Work each of the following problems. SHOW ALL WORK.

1. How many grams are contained in 0.54 moles of calcium?

2. Convert 2.54 moles magnesium carbonate to formula units.

3. What is the mass of 3.1×10^{20} molecules of carbon monoxide?

4. How many formula units are contained in 0.67 g CaO?

5. The number of nitrogen molecules in 1.2 moles of N_2 is _____.

6. 1.23×10^{28} f.u. of Al_2O_3 = _____ grams Al_2O_3

7. Convert 3.1 moles of water to grams of water.

8. What is the mass in grams of 4.6×10^{21} molecules of carbon tetrabromide?

9. 3.2×10^{23} f.u. NaCl = _____ grams NaCl

10. How many moles of silver is equal to 0.31 grams of silver?

11. The mass of 2.60 moles of SO_2 is _____.

BONUS
How many atoms of oxygen are contained in 12.3 kilograms of carbon dioxide?