Molar Conversions Worksheet

1. How many moles does 88.0 grams of CO_2 represent?
2. How many moles does 23.0 grams of CH_4 represent?
3. What is the mass of 5.0 moles of $Ba(OH)_2$?
4. What is the mass of 3.0 moles of water?
5. How many molecules are in 0.25 moles of NH_3?
6. How many oxygen atoms are in 2.4 moles of Fe_2O_3?
7. Convert 3.01×10^{23} molecules of C_2H_6 to moles.
8. How many moles of glucose does 1.2×10^{24} molecules represent?
9. What would be the mass of 1.20×10^{24} molecules of water?
10. How much mass does 1.70×10^{24} atoms of boron represent?
11. How many molecules does 56.0 grams of N_2O represent?
12. How many atoms does 0.0 grams of sulfur represent?
13. What would be the volume of 0.25 moles of chlorine gas at STP?
14. What would be the volume of 6.20 moles of helium gas at STP?
15. How many moles does 44.8 L of Hydrogen gas at STP represent?
16. A sample of Oxygen gas occupies 6.2 L at STP. How many moles does that represent?

CHECK!