Moles, Grams, and Atoms

- 1. How many moles are in a 2.30 g sample of Na?
- 2. How many moles are in a 5.00 g sample of H?
- 3. How many moles are in a 0.00190 g sample of F?
- 4. How many moles are in 710.0 g sample of Cl₂?
- 5. How many grams of Cu are in a 0.250 mole sample?
- 6. How many grams of AgNO₃ are in a 1.75 mole sample?
- 7. How many grams of BaCl₂ are in a 0.0500 mole sample?
- 8. How many grams of I_2 are in a 10.0 mole sample?
- 9. How many grams of C are in 1.00 atom?
- 10. How many grams of C are in 10.0 atoms?

11. How many grams of C are in 3000.0 atoms?
12. How many grams of P are in 1.00 atom?
13. How many grams of HCl are in 1.00 molecule?
14. How many grams of Zn are in 5.00 x 10 ²³ atoms?
15. How many grams of HF are in 2.00 x 10 ²⁰ molecules?
16. How many grams of HC ₂ H ₃ O ₂ are in 1.00 x 10 ² molecules?
17. How many molecules are there in $2.00 \times 10^{-4} \text{ g of H}_2$?
18. How many atoms are there in 4.40 g of O?
19. How many atoms are there in 4.00 x 10 ² g of Ca?
20. How many molecules are there in $1.60 \times 10^{-4} \text{ g of CH}_4$?