

Mole Calculations Worksheet

*****Show set up for all problems using dimensional analysis method*****

1. How many moles of Na are in 42 g of Na?
2. How many moles of O are in 8.25 g of O?
3. How much does 2.18 mol of Cu weigh?
4. What is the mass of 0.28 mol of iron?
5. How many moles are in 1.0×10^9 atoms?
6. What is the mass of 1.20×10^{25} atoms of sulfur?
7. How many moles of CO molecules are in 52 g of CO?
8. How many moles of C_2H_6 are in 124 g?
9. How many moles of CCl_4 are there in 56 g?
10. How much does 2.50 mol of H_2SO_4 weigh?
11. How much does 0.25 mol of Fe_2O_3 weigh?
12. How many molecules are there in 52 g of CO?
13. How many formula units are in 22.4 g SnO_2 ?
14. How many molecules are in 116 g CCl_4 ?
15. What is the mass of 3.01×10^{23} formula units of Fe_2O_3 ?
16. What is the mass of 1.2×10^{25} molecules of CO?
17. How many formula units are in 5.33 mol of $CuCl_2$?