

Mole Calculation Practice Worksheet

Calculate the following quantities:

- 1) Number of moles in 25.0 grams of water.

- 2) Number of grams in 4.55 moles of Li_2O .

- 3) Number of molecules in 23.5 moles of oxygen gas.

- 4) Number of moles in 3.42×10^{25} molecules of H_2SO_4 .

- 5) Number of molecules in 12.5 grams of NH_3 .
- 6) Number of grams in 8.26×10^{22} molecules of N_2H_4 .
- 7) Number of grams in 0.500 moles of CuBr_2 . (Ans: 112 g)
- 8) Number of carbon atoms in 0.655 moles of C_6H_{14} .
- 9) Grams of sodium in 85.6 g of Na_2SO_4 .

ANSWERS:

- 1) 1.39 mol
- 2) 136 g
- 3) 1.41×10^{25} molecules
- 4) 56.8 mol
- 5) 4.42×10^{23} molecules
- 6) 4.40 g
- 7) 112 g
- 8) 2.37×10^{24} atoms
- 9) 27.7 g