

Stoichiometry – 2 Step Conversions

[Must Show All Work]

- 1) How many grams are in 1.23×10^{24} molecules of CO_2 ?

- 2) How many liters are in 1.23×10^{24} molecules of CO_2 ?

- 3) How many atoms are in 3.25 grams of sodium?

- 4) How many molecules are in 7.50 grams of water vapor?

- 5) How many grams are in 0.448 liters of neon gas?

- 6) How many liters are in 25.0 grams of methane gas?

- 7) **Challenge:** How many atoms are in 10.0 liters of oxygen gas?

- 8) **Challenge:** List all the diatomic gases and write their chemical formulas?