

Name:

Date:

Period:

Molar Calculations Quiz

- How many moles are in 5.12×10^{22} molecules of Sulfur Hexafluoride?
 - 3.08×10^{46} moles
 - 0.085 moles
 - 0.1 moles
 - 3.1×10^{46} moles
- How many Lithium ions are in 3.11 moles of Lithium Carbonate, Li_2CO_3 ?
 - 1.87×10^{24} ions
 - 3.74×10^{24} ions
 - 5.62×10^{24} ions
 - 1.54×10^{-23} ions
- What is the percent composition by mass of the elements in Calcium Chloride?
 - 36.1% Ca, 63.9% Cl
 - 36.1% Cl, 63.9% Ca
 - 53.1% Ca, 46.9% Cl
 - 53.1% Cl, 46.9% Ca
- What is the empirical formula of a compound containing 39.9% C, 6.7% H, and 53.4% O?
 - $\text{C}_3\text{H}_6\text{O}_3$
 - C_2HO
 - $\text{C}_{10}\text{H}_{20}\text{O}_{10}$
 - CH_2O
- What is the empirical formula of a compound containing 65.2% Sc, 34.8% O?
 - Sc_3O_2
 - Sc_2O_3
 - ScO_2
 - Sc_2O