

**Atomic Mass, Molar Mass & the Mole
Worksheet**

- 1) What is the mass, in amu, of 2500 atoms of carbon?
- 2) How many zinc atoms are there in 5.00×10^{19} amu?
- 3) How many moles of helium atoms are there in 221,000 helium atoms?
- 4) How many atoms are there in 0.98 moles of iron?
- 5) How many moles of cesium are in 66.45 g of cesium?
- 6) What is the mass in g of 6.52×10^{18} atoms of gold?
- 7) How many moles of carbon trichlorofluorine, CCl_3F , are there in 435.2 g?
- 8) How many grams of TNT, $\text{C}_7\text{H}_5\text{N}_3\text{O}_6$, are there in 0.665 moles?
- 9) How many moles are in 57.2 g of octane, C_8H_{18} ?
- 10) How many moles are in 0.44 g of nitric acid?
- 11) Determine the molar mass of copper(II) sulfate pentahydrate, $\text{CuSO}_4 \cdot 5 \text{H}_2\text{O}$