

Trick or Treat **MOLES**

1. If you have 0.801 moles of acetic acid, how many molecules are there?
2. How many atoms in 7.00×10^{-6} mol of carbon?
3. What is the molar mass of manganese (V) carbonite?
4. What is the mass of 0.15 mol NaNO_3 ?
5. What is the mass of 0.0027 mol of iron (III) chloride?

6. How many oxygen atoms are there in 0.0400 mol of aluminum oxalate, $\text{Al}_2(\text{C}_2\text{O}_4)_3$?

7. What is the mass of 3.22 mol of elemental bromine?
(Elemental *means* found in nature)

8. How many moles are in 38 g uranium (V) oxide?

9. What is the molar mass of copper (II) chloride pentahydrate?

10. How many H atoms are in 70.00g ammonium fluoride?

11. What is the mass of 5.2 mol of thallium?

12. What is the molar mass of elemental phosphorus?

13. If you have 4.0×10^{23} lithium oxide molecules, how many moles is this equivalent to?

14. A 45.09 g sample of solid magnesium phosphate contains how many moles?

15. What is the number of atoms (total) in 21.9 g of calcium oxalate?