

- Find the molar mass of the following compounds
 - $\text{Zn}(\text{CH}_3\text{COO})_2$
 - $\text{Fe}_2(\text{SO}_3)_3$
 - $\text{Mg}_3(\text{PO}_4)_2$
 - $\text{Na}_2\text{C}_2\text{O}_4$
 - $(\text{NH}_4)_3\text{AsO}_4$
- Determine the number of moles of each of the following
 - 100 g of KMnO_4
 - 74 g of KCl
- Determine the number of grams of each of the following
 - 1.70 moles of KMnO_4
 - 0.25 moles of KCl
- How many molecules are in the quantities below?
 - 0.75 moles
 - 15 moles
- How many moles are in the number of molecules below?
 - 1.5×10^{20}
 - 3.4×10^{26}
- Convert the following:
 - 32.3 g of cobalt(II) nitrate to moles
 - 90.8 moles cobalt(II) nitrate to kg
 - 89 kg cobalt(II) nitrate to formula units
- How many formula units (particles) in 10.50 moles of calcium phosphate?
- How many moles in 45 L of carbon dioxide at STP.
- What volume would be occupied by 5.2 mol $\text{CO}_2(\text{g})$ at STP?
- What would be the mass of 100.0 L $\text{CO}_2(\text{g})$ at STP?
- How many grams in 1.92 mol ammonium phosphate?
- How many particles (formula units) would there be in question 11
- How many litres of oxygen ($\text{O}_2(\text{g})$) would be occupied by 5.25 moles at STP?
- 15.50 L of oxygen gas would contain how many grams at STP? (L \rightarrow mol \rightarrow g)