

Mole Conversions 2

Name: _____

Perform the following conversions. Show Work!!!

- 1) How many molecules are there in 24 grams of FeF_3 ?
- 2) How many moles are there in 450 grams of sodium sulfate?
- 3) How many moles are there in 2.3×10^{24} atoms of silver?
- 4) How many grams are there in 7.4×10^{23} molecules of silver nitrate?
- 5) How many grams are there in 7.5×10^{23} molecules of H_2SO_4 ?
- 6) How many moles are there in 122 grams of $\text{Cu}(\text{NO}_3)_2$?
- 7) How many moles are there in 9.4×10^{25} molecules of H_2 ?
- 8) How many molecules are there in 230 grams of calcium chloride?

- 9) How many molecules are there in 2.3 grams of $(\text{NH}_4)_2\text{S}$?
- 10) How many grams are there in 3.3×10^{23} molecules of sodium iodide?
- 11) How many molecules are there in 200 moles of lead (IV) chloride?
- 12) How many grams are there in 1×10^{24} molecules of BaCl_2 ?
- 13) How many grams are there in 4.5×10^{22} molecules of $\text{Mg}(\text{NO}_3)_2$?
- 14) How many molecules are there in 9.34 grams of lithium chloride?
- 15) How many grams do 4.3×10^{21} molecules of UF_6 weigh?
- 16) How many moles are there in 230 grams of ammonium bromide?