

Chapter 3.3 The Mole and Mole conversions

Directions: Make the following conversions based on the mole conversions learned in section 3.3.

- 1) How many molecules are there in 24 grams of FeF_3 ?
- 2) How many moles are there in 450 grams of Na_2SO_4 ?
- 3) How many grams are there in 22.1 moles of silver?
- 4) How many moles are there in 7.4×10^{23} molecules of AgNO_3 ?
- 5) How many grams are there in 7.5×10^{23} molecules of H_2SO_4 ?
- 6) How many molecules are there in 122 grams of $\text{Cu}(\text{NO}_3)_2$?
- 7) How many grams are there in 9.4×10^{25} molecules of H_2 ?
- 8) How many molecules are there in 230 grams of CoCl_2 ?

- 9) How many molecules are there in 2.3 grams of NH_4SO_2 ?
- 10) How many grams are there in 3.3 moles of N_2I_6 ?
- 11) How many molecules are there in 200 grams of CCl_4 ?
- 12) How many grams are there in 0.0176 moles of BCl_3 ?
- 13) How many grams are there in 4.5×10^{22} molecules of $\text{Ba}(\text{NO}_2)_2$?
- 14) How many molecules are there in 9.34 grams of LiCl ?
- 15) How many grams do 4.3×10^{21} molecules of UF_6 weigh?
- 16) How many molecules are there in 230 grams of NH_4OH ?

