

Name _____ Date _____ Period ____

Moles, Molecules, and Grams Worksheet

- 1) How many molecules are there in 24 grams of FeF_3 ?
- 2) How many molecules are there in 450 grams of Na_2SO_4 ?
- 3) How many grams are there in 2.3×10^{24} atoms of silver?
- 4) How many grams 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 ?

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- 9) How many molecules are there in 2.3 grams of NH_4SO_2 ?
- 10) How many grams are there in 3.3×10^{23} molecules of N_2I_6 ?
- 11) How many molecules are there in 200 grams of CCl_4 ?
- 12) How many grams are there in 1×10^{24} molecules 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 ?

Moles, Molecules, and Grams Worksheet – Answer Key

- 1) How many molecules are there in 24 grams of FeF_3 ? **1.28×10^{23} molecules**
- 2) How many molecules are there in 450 grams of Na_2SO_4 ? **1.91×10^{24} molecules**
- 3) How many grams are there in 2.3×10^{24} atoms of silver? **421 grams**
- 4) How many grams are there in 7.4×10^{23} molecules of AgNO_3 ? **209 grams**
- 5) How many grams are there in 7.5×10^{23} molecules of H_2SO_4 ? **122 grams**
- 6) How many molecules are there in 122 grams of $\text{Cu}(\text{NO}_3)_2$? **3.92×10^{23} molecules**
- 7) How many grams are there in 9.4×10^{25} molecules of H_2 ? **312 grams**
- 8) How many molecules are there in 230 grams of CoCl_2 ? **1.07×10^{24} molecules**
- 9) How many molecules are there in 2.3 grams of NH_4SO_2 ? **1.69×10^{22} molecules**
- 10) How many grams are there in 3.3×10^{23} molecules of N_2I_6 ? **430 grams**
- 11) How many molecules are there in 200 grams of CCl_4 ? **7.82×10^{23} molecules**
- 12) How many grams are there in 1×10^{24} molecules of BCl_3 ? **195 grams**
- 13) How many grams are there in 4.5×10^{22} molecules of $\text{Ba}(\text{NO}_3)_2$? **17.1 grams**
- 14) How many molecules are there in 9.34 grams of LiCl ? **1.33×10^{23} molecules**
- 15) How many grams do 4.3×10^{21} molecules of UF_6 weigh? **2.51 grams**
- 16) How many molecules are there in 230 grams of NH_4OH ? **3.96×10^{24} molecules**