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 x 10^{24} atoms of silver?
- 4) How many grams are there in 7.4 x 10^{23} molecules of AgNO₃?
- 5) How many grams are there in 7.5 x 10^{23} molecules of H₂SO₄?
- 6) How many molecules are there in 122 grams of $Cu(NO_3)_2$?
- 7) How many grams are there in 9.4 x 10^{25} molecules of H₂?
- 8) How many molecules are there in 230 grams of $CoCl_2$?

- 9) How many molecules are there in 2.3 grams of NH₄SO₂?
- 10) How many grams are there in 3.3 x 10^{23} molecules of N₂I₆?
- 11) How many molecules are there in 200 grams of CCl_4 ?
- 12) How many grams are there in 1×10^{24} molecules of BCl₃?
- 13) How many grams are there in 4.5 x 10^{22} molecules of Ba(NO₂)₂?
- 14) How many molecules are there in 9.34 grams of LiCl?
- 15) How many grams do 4.3×10^{21} molecules of UF₆ weigh?
- 16) How many molecules are there in 230 grams of NH_4OH ?

Moles, Molecules, and Grams Worksheet – Answer Key

- How many molecules are there in 24 grams of FeF₃? 1.28 x 10²³ molecules
- How many molecules are there in 450 grams of Na₂SO₄? 1.91 x 10²⁴ molecules
- 3) How many grams are there in 2.3 x 10^{24} atoms of silver? **421 grams**
- How many grams are there in 7.4 x 10²³ molecules of AgNO₃? 209 grams
- 5) How many grams are there in 7.5 x 10^{23} molecules of H₂SO₄? **122 grams**
- 6) How many molecules are there in 122 grams of Cu(NO₃)₂? 3.92 x 10²³ molecules
- 7) How many grams are there in 9.4 x 10^{25} molecules of H₂? **312 grams**
- How many molecules are there in 230 grams of CoCl₂? 1.07 x 10²⁴ molecules
- 9) How many molecules are there in 2.3 grams of NH₄SO₂? 1.69 x 10²² molecules
- 10) How many grams are there in 3.3×10^{23} molecules of N₂I₆? **430 grams**
- How many molecules are there in 200 grams of CCl₄? 7.82 x 10²³ molecules
- 12) How many grams are there in 1×10^{24} molecules of BCI₃? **195 grams**
- 13) How many grams are there in 4.5×10^{22} molecules of Ba(NO₂)₂? 17.1 grams
- How many molecules are there in 9.34 grams of LiCl? 1.33 x 10²³ molecules
- 15) How many grams do 4.3×10^{21} molecules of UF₆ weigh? **2.51 grams**
- 16) How many molecules are there in 230 grams of NH₄OH? 3.96 x 10²⁴ molecules