Moles, Molecules, and Grams Worksheet

- 1) How many molecules are there in 24 grams of FeF₃?
- 2) How many molecules are there in 450 grams of Na₂SO₄?
- 3) How many grams are there in 2.3 x 10²⁴ atoms of silver?
- 4) How many grams are there in 7.4 x 10²³ molecules of AgNO₃?
- 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 Cu(NO₃)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 CoCl₂?

9) How many molecules are there in 2.3 grams of NH₄SO₂? How many grams are there in 3.3×10^{23} molecules of N_2I_6 ? 10) How many molecules are there in 200 grams of CCI₄? 11) How many grams are there in 1 x 10²⁴ molecules of BCl₃? 12) How many grams are there in 4.5×10^{22} molecules of Ba(NO₂)₂? 13) 14) How many molecules are there in 9.34 grams of LiCl? How many grams do 4.3 x 10²¹ molecules of UF₆ weigh? 15) How many molecules are there in 230 grams of NH₄OH? 16)

Moles, Molecules, and Grams Worksheet - Answer Key

- 1) How many molecules are there in 24 grams of FeF₃? **1.28 x 10**²³ molecules
- 2) 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 10²⁴ atoms of silver? 421 grams
- 4) 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 10²³ molecules of H₂SO₄? 122 grams
- 6) How many molecules are there in 122 grams of Cu(NO₃)₂? **3.92 x 10**²³ molecules
- 7) How many grams are there in 9.4 x 10²⁵ molecules of H₂? **312 grams**
- 8) 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 $N_2 I_6$? **430 grams**
- 11) How many molecules are there in 200 grams of CCl₄? **7.82 x 10**²³ molecules
- 12) How many grams are there in 1 x 10²⁴ molecules of BCl₃? 195 grams
- 13) How many grams are there in 4.5 x 10^{22} molecules of Ba(NO₂)₂? 17.1 grams
- 14) How many molecules are there in 9.34 grams of LiCl? 1.33 x 10²³ molecules
- 15) How many grams do 4.3 x 10²¹ molecules of UF₆ weigh? **2.51** grams
- 16) How many molecules are there in 230 grams of NH₄OH? 3.96 x 10²⁴ molecules