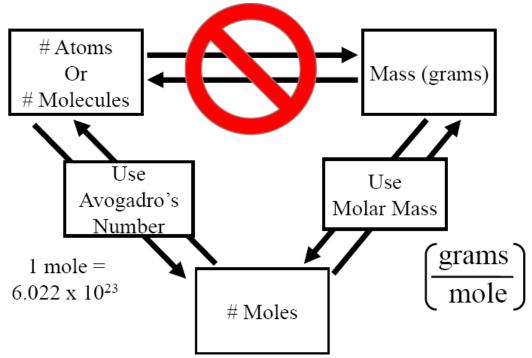
Moles, Molecules, and Grams Worksheet and Key



1) How many moles are there in 24.0 grams of FeF₃?

2) How many moles are there in 458 grams of Na_2SO_4 ?

3) How many grams are there in 2.30×10^{24} atoms of silver?

4) How many grams are there in 7.40 moles of AgNO₃?

5) How many grams are there in 7.50×10^{23} molecules of H_2SO_4 ?	
6) How many molecules are there in 122 grams of NO ₂ ?	
7) How many grams are there in 9.40×10^{25} molecules of H_2 ?	
8) How many molecules are there in 237 grams of CCl ₄ ?	
9) How many molecules are there in 2.30 grams of NH ₃ ?	
10) How many grams are there in 3.30 x 10^{23} molecules of N_2I_6 ?	
11) How many moles are there in 2.00×10^{19} molecules of CCl ₄ ?	

- 12) How many grams are there in 1.00 x 10²⁴ molecules of BCl₃? 13) How many grams are there in 4.50 moles of $Ba(NO_2)_2$? 14) How many molecules are there in 9.34 grams of water? 15) How many grams do 4.30 x 10²¹ molecules of UF₆ weigh? Moles, Molecules, and Grams Worksheet – Answer Key
- 1) How many moles are there in 24.0 grams of FeF₃? .213 moles
- 2) How many moles are there in 458 grams of Na₂SO₄? **3.22 moles**
- 3) How many grams are there in 2.30×10^{24} atoms of silver? **412 grams**
- 4) How many grams are there in 7.40 moles of AgNO₃? **1260 grams (note:3 significant figures)**
- 5) How many grams are there in 7.50 x 10²³ molecules of H₂SO₄? **122 grams**
- 6) How many molecules are there in 122 grams of NO₂? **1.60 x 10²⁴ molecules**
- 7) How many grams are there in 9.40 x 10^{25} molecules of H₂? **315 grams**
- 8) How many molecules are there in 237 grams of CCl₄? 9.28 x 10²³ molecules
- 9) How many molecules are there in 2.30 grams of NH₃? **8.13 x 10²² molecules**
- 10) How many grams are there in 3.30×10^{23} molecules of N_2I_6 ? **433 grams** 11) How many moles are there in 2.00×10^{19} atoms of CCl_4 ? **3.32 x 10^{-5} moles**
- 12) How many grams are there in 1.00 x 10²⁴ molecules of BCl₃? **195 grams**
- 13) How many grams are there in 4.50 moles of Ba(NO₂)₂? **1030 grams (3 significant figures)**
- 14) How many molecules are there in 9.34 grams of water? 3.12 x 10^{23} molecules
- 15) How many grams do 4.30 x 10²¹ molecules of UF₆ weigh? **2.51 grams**