Moles, Mass and Particles Worksheet

How many formula units are there in 24 g of FeF₃? 1) How many formula units are there in 450 g of Na₂SO₄? 2) How many grams are there in 2.3 x 10²⁴ atoms of silver? 3) How many grams are there in 7.4×10^{23} formula units of AgNO₃? 4) How many grams are there in 7.5 x 10²³ molecules of H₂SO₄? 5) 6) How many formula units are there in 122 g of $Cu(NO_3)_2$? How many grams are there in 9.4×10^{25} molecules of H_2 ? 7) How many formula units are there in 230 g of CoCl₂? 8)

9) How many formula units are there in 2.3 g of NH₄SO₂? How many grams are there in 3.3×10^{23} molecules of $N_2 I_6$? 10) 11) How many molecules are there in 200 g of CCl₄? How many grams are there in 1 x 10²⁴ molecules of BCl₃? 12) How many grams are there in 4.5×10^{22} formula units of Ba(NO₂)₂? 13) How many formula units are there in 9.34 g of LiCI? 14) How many grams do 4.3 x 10²¹ molecules of UF₆ weigh? 15) 16) How many formula units are there in 230 g of NH₄OH?

Moles, Mass and Particles Worksheet - Answer Key

- 1) **1.3** x **10**²³ formula units
- 2) 1.91 x 10²⁴ formula units
- 3) $4.1 \times 10^2 \text{ g}$
- 4) $2.1 \times 10^2 \text{ g}$
- 5) 1.2 x 10² g
- 6) **3.92** x **10**²³ formula units
- 7) $3.1 \times 10^2 \text{ g}$
- 8) **1.07 x 10²⁴ formula units**
- 9) **1.7 x 10²² formula units**
- 10) $4.3 \times 10^2 \text{ g}$
- 11) 7.82 x 10²³ molecules
- 12) **200** g
- 13) **17.1** g
- 14) 1.33 x 10²³ formula units
- 15) **2.5** g
- 16) 3.96 x 10²⁴ formula units