

Grams/Moles Calculations

Given the following, find the number of moles:

- 1) 30 grams of H_3PO_4
- 2) 25 grams of HF
- 3) 110 grams of NaHCO_3
- 4) 1.1 grams of FeCl_3
- 5) 987 grams of $\text{Ra}(\text{OH})_2$
- 6) 564 grams of copper
- 7) 12.3 grams of CO_2
- 8) 89 grams of $\text{Pb}(\text{CH}_3\text{COO})_4$

Given the following, find the number of grams:

9) 4 moles of $\text{Cu}(\text{CN})_2$

10) 5.6 moles of C_6H_6

11) 21.3 moles of BaCO_3

12) 1.2 moles of $(\text{NH}_4)_3\text{PO}_3$

13) 9.3×10^{-3} moles of SmO

14) 6.6 moles of ZnO

15) 5.4 moles of K_2SO_4

16) 88.4 moles of NI_3

Grams/Moles Calculations – Answer Key

Given the following, find the number of moles:

- 1) 30 grams of H_3PO_4 **0.31 moles**
- 2) 25 grams of HF **1.25 moles**
- 3) 110 grams of NaHCO_3 **1.31 moles**
- 4) 1.1 grams of FeCl_3 **0.0068 moles**
- 5) 987 grams of $\text{Ra}(\text{OH})_2$ **3.80 moles**
- 6) 564 grams of copper **0.11 moles**
- 7) 12.3 grams of CO_2 **0.28 moles**
- 8) 89 grams of $\text{Pb}(\text{CH}_3\text{COO})_4$ **0.20 moles**

Given the following, find the number of grams:

- 9) 4 moles of $\text{Cu}(\text{CN})_2$ **462 grams**
- 10) 5.6 moles of C_6H_6 **436.8 grams**
- 11) 21.3 moles of BaCO_3 **4202.5 grams**
- 12) 1.2 moles of $(\text{NH}_4)_3\text{PO}_3$ **159.6 grams**
- 13) 9.3×10^{-3} moles of SmO **1.5 grams**
- 14) 6.6 moles of ZnO **537.2 grams**
- 15) 5.4 moles of K_2SO_4 **941.2 grams**
- 16) 88.4 moles of NI_3 **34679.3 grams**