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 $Ra(OH)_2$

6) 564 grams of copper

7) 12.3 grams of CO_2

8) 89 grams of $Pb(CH_3COO)_4$

Given the following, find the number of grams:

9) 4 moles of $Cu(CN)_2$

10) 5.6 moles of C_6H_6

11) 21.3 moles of $BaCO_3$

12) 1.2 moles of $(NH_4)_3PO_3$

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 $Ra(OH)_2$ **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 $Pb(CH_3COO)_4$ **0.20 moles**

Given the following, find the number of grams:

9) 4 moles of $Cu(CN)_2$ **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 $(NH_4)_3PO_3$ **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**