Name _____   Date _____   Period ____

Grams/Moles Calculations

Given the following, find the number of moles:

1)   30 grams of $H_{3?}PO_4$

2)   25 grams of HF

3)   110 grams of $NaHCO_3$

4)   1.1 grams of $FeCl_3$

5)   987 grams of $Ra(OH)_2$
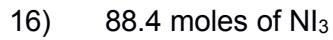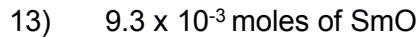
6)   564 grams of copper

7)   12.3 grams of CO_2

8)   89 grams of $Pb(CH?_3COO)_4$

Name _____   Date _____   Period ____

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 x 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

Name _____   Date _____   Period ___

Grams/Moles Calculations – Answer Key

Given the following, find the number of moles:

1)   30 grams of $H_{3?}PO_4$ **0.31 moles**

2)   25 grams of HF **1.2 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 **8.88 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 x 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**

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