Name: _____ Period: _____

Moles and Molecules Worksheet

Directions: Answer each question in the space provided. Please place your final answer on the line to the right. Be sure to show all your work and watch your sig figs. Have fun ☺

1. How many molecules are in 3.25 mols of water?

_____

2. How many molecules are in 65.78 g of Copper (II) sulphate?

_____

3. How many oxygen atoms in 75.12 g of Calcium Oxalate?

_____

4. How many hydrogen atoms in 5.25 g of ammonium carbonate?

_____

5. Determine the mass (in grams) of 1.67×10^{23} molecules of Sodium chloride

_____

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6. Calculate how many grams of Lead (II) sulphate, if there are 9.28×10^{25} oxygen atoms.

_____

7. What is the mass, in grams, of Magnesium Carbonate if you have 2.568×10^{25} atoms of carbon?

_____

8. Calculate the number of molecules in 69.75 g of Sodium Oxalate.

_____

9. How many hydrogen atoms in 0.275 mols of Potassium acetate.

_____

10. How many carbon atoms in 77.895 g of Aluminum Citrate.

_____

11. How many grams of Sodium Benzoate, if you have 9.890 x 10 26 carbon atoms.

_____