**Chem 1311- Stoichiometry Intro and Nomenclature**



A container contains 324g of Ca(OH)2. How many moles of Ca(OH)2 are in the container?



A lab worker needs 1.5 moles of sulfuric acid for an experiment. How many grams of sulfuric acid will he weigh out on the scale?



A chemist used 4.07x1024 formula units of Li2O in the lab and needs it to be converted to grams for her lab report. How many grams of Li2O will she report?



How many atoms are present in 50.0g of each of the following compounds?

FeCl2



Dinitrogen Pentoxide



What is the difference between an ionic and molecular (covalent) compound? Provide 2 examples of each.



Fill in the blanks:



|  |  |  |
| --- | --- | --- |
| **Name** | **Formula** | **Ionic, covalent, or acid?** |
| Sulfurous acid |  |  |
|  | NH4OH |  |
| Nitrogen trihydride |  |  |
| Mercury (II) oxide |  |  |
|  | CuCl2 |  |
| Hydroiodic acid |  |  |
|  | CCl4 |  |
|  | H3(PO4) |  |