Note Taking Guide: Episode 701   Name_____

Lab results: 1 doz grains of rice = _____ g (Use this fact as a conversion factor.)

? grains of rice = 1.94 g

Avogadro's Number - the _____ = the number _____

Molar Mass
the _____ of one _____ of any _____ _____

molar mass of an element (g/mol)
equals the _____ _____ of the element in grams

molar mass of a compound
equals the _____ of the _____ _____ of the _____
making up the _____

example problems:
       Find the molar masses of-
              magnesium _____ g/mol   chlorine _____ g/mol
                    magnesium chloride _____ g/mol

       Find the molar mass of aluminum oxide.

How many <u>moles</u> of atoms are there in 8.0 g of Mg?

How many <u>atoms</u> are in 0.7 g of He?

Work Problem Set #1 on back.

<u>more example problems:</u>

What would be the mass of 5.3×10^{22} formula units of calcium iodide?

<u>Episode 701 Problems:</u>   *Fill in masses from lab data and solve.*

How many atoms are in _____ grams of copper?

How many formula units are in _____ grams of salt?

How many molecules are in _____ grams of water?

The Chemistry Quiz

CR1._____   CR2._____   1._____   2._____

        3._____   4._____   5._____