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 moles of atoms are there in 8.0 g of Mg?

How many atoms are in 0.7 g of He?

Work Problem Set #1 on back.

more example problems:

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

Episode 701 Problems: 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._____