Lesson 77: Introduction to the Mole Notes

Chemistry with Lab

Lab results: 1 dozen grains of factor.)	f rice =	g (Use this fact as a convers	ion
? grains of rice = 1.94 g			
Avogadro's number – the	;	= the number	
<u>Molar Mass</u>			
the of one	of any	·	
molar mass of an element (g	<u>/mol)</u>		
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	
magnesiun	n chloride	g/mol	

Find the molar mass of aluminum oxide.

Lesson 77: Intro to the Mole Notes (cont.)

Chemistry with Lab

How many moles of atoms are there in 8.0 g of Mg?

How many atoms are in 0.7 g of He?

How many atoms are in 3.5 grams of silicon?

How many formula units are in 32.6 grams of potassium oxide?

How many molecules are in 0.25 grams of dinitrogen pentoxide?

more example problems:

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

Lesson 77: Intro to the Mole Notes (cont.)

Chemistry with Lab