#### Molecular Formula

•	represents the _		number of		of each
		in the		_	

- not necessary for \_\_\_\_\_\_

The molecular formula for water is	, and empirical formula is
also	
The molecular formula for hydrogen peroxide is	, and
empirical formula is	

#### **Example Problem**

The empirical formula for glucose is CH<sub>2</sub>O.

- a) If the molar mass is 180.0 g/mole, find the molecular formula.
- b) If the molar mass is \_\_\_\_\_ g/mole, find the molecular formula.

### Problem Set One (work on separate paper)

empirical formula	molar mass
CH	g/mol
NO <sub>2</sub>	g/mol
C₃H <sub>8</sub>	g/mol

# Lesson 88: Molecular Formulas Notes (cont.) Chemistry with Lab

Ex. P	roblem: Find the r	nolecular fo	rmula for a	compound w	vith:	
	g N		_ g O	molar mass	5	_ g/mol
Hydra	<u>ates</u>					
•		_ with		_ molecules	adhering to	the
		_ or				
•	Na <sub>2</sub> CO <sub>3</sub> •	_ H <sub>2</sub> O				
	indicates	_	mol	ecules adher	ing to each	
	of sodium carbonate					
•	mass of	= ma	ass of		_ compound	minus
	mass of		_ compound	d		

### **Example Problems**

Determine the formula of hydrated barium chloride from this data:

initial mass of hydrated compound = 1.373 g mass after heating - 1.175 g

# Lesson 88: Molecular Formulas Notes (cont.) Chemistry with Lab

Determin	ne the formula for	the hydrate	that is	% (	aSO₃ and	
	% H <sub>2</sub> O.					
The Che	emistry Quiz					
CR1	CR2	1	2	3	<del></del>	
4	5					