Percent Composition

## Formula Mass

Formula mass -

Mass of CaS

### Formula Mass

Formula mass – the sum of the atomic masses of all the atoms in the compound

Mass of KMnO<sub>4</sub>

There are \_\_\_\_ atoms of Oxygen. You must multiply the mass by \_\_\_\_.

## Check your Understanding

What is the formula mass of sodium chloride, NaCl?

# Check your Understanding

What is the formula mass of sodium sulfate, Na<sub>2</sub>SO<sub>4</sub>?

# 

# Percent Composition Example: What is the percent is Calcium Ca5? Formula Mass of Ca5 Ca = 40.08 S = 32.06 = 72.14 Mass of element x 100 Formula Mass of compound % Ca

	What is the percent composition of Potassium in Potassium Permanganate ( $KMnO_4$ )?
2	Molar Mass of KMnO <sub>4</sub> =158.04
	% K
K = 1(39.10) = 39.10	
Mn = 1(54.94) = 54.94	
O = 4(16.00) = <u>64.00</u>	

Steps	
Write formulas C	CORRECTLY _(if needed)
Look up (round to hundre	on Periodic Table edths)
• mass to	gether to find of compound.
Calculate     the mass of	
decimal to a percei	ntage or multiply by 100)

# **Another Example**

What is the percent composition of lead in lead IV carbonate?

# Check Your Understanding

What is the percent composition of sodium in sodium chloride?

## Check Your Understanding

What is the percent composition of sodium in sodium sulfate?