Percent Composition from the Chemical Formula

Name _____

Write all numbers with one decimal place

00.0

$$\% \text{ by mass} = \frac{mass\ of\ element\ in\ one\ mole}{molar\ mass\ of\ compound} \times 100$$

Find the percent compositions of all the elements in the following compounds:

NaOH				
element	#Atoms	Molar mass	Total	% of composition by mass
Na				
O				
H				
molar mass of compound				Total=100%

$(NH_4)_2S$				
element	#Atoms	Molar mass	Total	% of composition by mass
N				
H				
S				
molar mass of compound				Total=100%

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$C_{12}H_{22}O_{11}$				
element	#Atoms	Molar mass	Total	% of composition by mass
molar mass of compound				Total=100%

CH_3COOH				
element	#Atoms	Molar mass	Total	% of composition by mass
molar mass of compound				Total=100%

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