

Here are some practice problems for the current material dealing with molar masses. As an extra challenge, could anyone identify the substances below?

Calculate the formula masses for the compounds below.

a)	$\text{H}_3\text{PO}_4$	b)	$\text{C}_4\text{H}_{10}$	c)	$\text{Co}(\text{NO}_3)_2$
	98 amu		58 amu		183 amu
d)	$\text{FeCl}_3$	e)	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$	f)	$\text{Al}_2(\text{SO}_4)_3$
	161 amu		342 amu		342 amu

Calculate molar masses for the compounds below.

a)	$\text{H}_2\text{O}$	b)	$\text{H}_2\text{SO}_4$	c)	$\text{C}_6\text{H}_{12}\text{O}_6$
	18 g/mol		98 g/mol		180 g/mol
d)	$\text{C}_7\text{H}_8\text{N}_4\text{O}_2$	e)	$(\text{Na})\text{C}_{11}\text{H}_{18}\text{N}_2\text{O}_3$	f)	$(\text{C}_5\text{H}_5\text{N})_4\text{Cu}(\text{NCS})_4$
	180 g/mol		249 g/mol		728 g/mol

Calculate the mass of the following compounds.

a)	1.00 mol $\text{NaCl}$	b)	2.00 mol $\text{MgBr}_2$	c)	0.50 mol $\text{CCl}_4$
	58 g		368 g		76 g
d)	3.60 mol $\text{NaOH}$	e)	0.710 mol $\text{Ca}(\text{CN})_2$	f)	1.82 mol $\text{BaSO}_4$
	144 g		65.32 g		424.06 g

Calculate the number of moles of the following compounds.

a)	88 g $\text{CO}_2$	b)	198 g $\text{C}_2\text{H}_{12}\text{O}_6$	c)	65.25 g $\text{LiBr}$
	2.00 moles		1.5 moles		0.75 moles
a)	249 g $\text{NaOH}$	b)	878 g $\text{NaAlSi}_3\text{O}_8$	c)	7,327 g $\text{Cu}_2\text{FeSnS}_4$
	6.225 moles		3.35 moles		17.00 moles

# 24 Practice Problems Chemistry

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