Empirical Formula, Molecular Formula and Hydrates Worksheet

1.	Write the Empirical Formula for Each of the Following a. P_4O_6	e. $C_6H_8O_6$
	b. C ₆ H ₉	f. C ₁₀ H ₂₂
	c. CH ₂ OHCH ₂ OH	g. Cu ₂ C ₂ O ₄
	d. BrCl ₂	h. Hg ₂ F ₂
2.	Write the empirical formula for each of the following (show your work): a. A compound composed of: 72% iron (Fe) and 27.6% oxygen (O) by mass	
	b. A compound composed of: 9.93% carbon (C), 58. (This compound is common	
	c. A compound composed of: 0.556g carbon (C) and	0.0933g hydrogen (H)
3.	Write the molecular formula for each of the following: equivalent to molecular mass of the compound. a. A compound with a molecular mass of 70.0 amu a	
	b. A compound with a molecular mass of 46.0 amu a	and an empirical formula of NO_2 .
4.	Can the molecular formula of a compound ever be the s Explain you answer.	ame as the empirical formula for the compound?