

## Unit 6C Molecular Formulas Practice III

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Date:

Work each of the following	problems. S	SHOW ALL	WORK.

1.	What is the molecular formula of paradichlorobenzene, an ingredient in moth balls, that has a molar mass of 147.0 g/mol and an empirical formula of $\mathrm{C_3CIH_2}$ ?
2.	Determine the molecular formula for a compound with a molar mass of 86.17 g/mol that contains 83.62 % carbon and 16.38 % hydrogen.
3.	What is the formula for a hydrate which consists of 9.52 grams of barium iodide and 0.89 grams of water?