A hydrate is an ionic compound with water molecules loosely bonded to its crystal structure. The water is in a specific ratio to each formula unit of the salt. For example, the formula CuSO ₄ • 5H ₂ O indicates that there are five water molecules for every one formula unit of CuSO ₄ . Answer the questions below.	
1.	What percentage of water is found in CuSO ₄ •5H ₂ 0?
2.	What percentage of water is found in Na ₂ S•9H ₂ 0?
3.	A 5.0 g sample of a hydrate of BaCl ₂ was heated, and only 4.3 g of the anhydrous salt remained. What percentage of water was in the hydrate?
4.	A 2.5 g sample of a hydrate of $Ca(NO_3)_2$ was heated, and only 1.7 g of the anhydrous salt remained. What percentage of water was in the hydrate?
5.	A 3.0 g sample of $Na_2CO_3 \bullet H_2O$ is heated to constant mass. How much anhydrous salt remains?
6.	A 5.0 g sample of $Cu(NO_3)_2 \bullet nH_2 0$ is heated, and 3.9 g of the anhydrous salt remains. What is the value of n?

Name _

COMPOSITION OF HYDRATES