		N.	ИD	0	CIT	10	NI		: LI	VD	DA	TES
٠	U	HΥ	/IP	U.	31 I	IU	N	U I	• п	10	KA	(IE)

Name _____

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 CuSO₄•5H₂O indicates that there are five water molecules for every one formula unit of CuSO₄. Answer the questions below.

- 1. What percentage of water is found in CuSO₄•5H₂0?
- 2. What percentage of water is found in Na,S•9H,0?
- 3. A 5.0 g sample of a hydrate of BaCl₂ 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(NO₃)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 Na₂CO₃•H₂0 is heated to constant mass. How much anhydrous salt remains?
- 6. A 5.0 g sample of Cu(NO₃)₂•nH₂0 is heated, and 3.9 g of the anhydrous salt remains. What is the value of n?