Experiment, Water of Hydration

Ah... Thales of Miletus

Name Pe	r
Purpose: to measure the Water of Hydration of CuSO ₄ • X H ₂ C and find its hydrated formula.)
You MUST show all your math calculations!!	
Procedure:	
1. Weigh an empty 150mm test tubeg	
2. Fill the tube about half-full with hydrated CuSO ₄ • X H ₂ O crys	stals.
3. Weigh the filled tubeg	
4. Mass of the hydrated crystals (3-1)g	
5. With GOGS ON, carefully heat the tube until all water ceases	to evolve
6. Allow to cool, and weighg	
7. Find the mass of the dehydrated crystals (6-1)g	
8. Find the mass of the water that came off $(4-7)$ g	
Showing your Hup, Two, Three, Fours on the back:	
9. Get moles of the dry $CuSO_4$ crystals. $mol = m/MM$	mol
10. Get moles of the water of hydration. $mol = m/MM$	mol
11. Get ratio of mol of H_2O / mol of $CuSO_4$	
12. Write the formula for the hydrate $CuSO_4 \bullet ___ H_2O$	
13. Please bring back the crystals for re-cycling.	
14. Write a critique of the lab. on the back.	