

1.	A wet 43.2 g sample of copper sulfate heptahydrate ($CuSO_4 \cdot 7H_2O$) is heated until only copper sulfate ($CuSO_4$) remains. The mass of the water lost is 34.1 g. What is the mass of the copper sulfate?
2.	A 13.5 g sample of calcium carbonate is heated until it decomposes completely to calcium oxide and carbon dioxide. After measurement, we learn that 7.6 g or calcium oxide is produced. What is the mass of carbon dioxide produced?
3.	A reaction occurs in a beaker between zinc metal and diluted hydrochloric acid to form zinc chloride and hydrogen gas according to the following balanced equation: Zn +2HCl→ZnCl₂+H₂ Why is there a decrease in the mass when you measure the leftover in the beaker? A. The reactants decompose. B. Zinc metal is a limiting reactant. C. Hydrogen gas escapes. D. Zinc metal precipitates. Please choose the correct answer:
4.	What is the rate of reaction? A. How fast a reaction is B. How loud a reaction is C. How big a reaction is D. How much gas a reaction produces
	Please choose the correct answer:

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