Checking What Stopped a Carbonate Model

Scoring guide · one credit per question · review written work against each rubric

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Question 1

Choice (2)

Adding acid alone restarts gas production, so carbonate had to remain in P.

Question 2

Adding only acid produces more gas, so carbonate remains. Adding only carbonate does not restart the reaction, which is consistent with the acid having been used up. Both reactants could not have been gone.

Question 3

The final volume is 36 mL. The new acid amount is sufficient, but the same carbonate amount limits production to 36 mL.

Question 4

No. All original carbonate has reacted, and the model requires carbonate as well as acid to produce gas.