Finding Which Step Delays a Color Change

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

Finding Which Step Delays a Color Change

Question 1

Choice (1)

Q has five blue B particles at the early check, while P has one.

Question 2

P used 10 − 6 = 4 A particles, and Q used 10 − 2 = 8. One A is converted in each first-step event.

Question 3

Starting with B bypasses A → B. The matched B and C records show no detectable change to B → C under the tested conditions. In the earlier trial, more A had already passed through the first step in Q.

Question 4

At the early check Q had converted eight A particles compared with four in P, but both eventually had ten C. The added material changes the progress observed early and gives the same final amount of C.