Checking Reaction Contacts in Divided Cells

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

Checking Reaction Contacts in Divided Cells

Question 1

Choice (2)

In Q the two species start on opposite sides of the wall, so neither compartment contains both.

Question 2

P gives 4 × 4 + 4 × 4 = 32. R gives 6 × 2 + 2 × 6 = 24. P has the larger initial contact index.

Question 3

Multiplying eight A by eight B counts pairs even if they are separated by the wall. In Q all eight A are on the left and all eight B are on the right, so none of those 64 pairs can meet. The correct total adds the products from the two individual compartments.

Question 4

Each half now has four A and four B, matching P. The original separated Q pattern had no compartment containing both kinds of particle.