Tracking Water Between Two Salt Solutions

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

Tracking Water Between Two Salt Solutions

Question 1

Choice (1)

P has water fraction 90/100 = 0.90, higher than Q’s 60/80 = 0.75.

Question 2

P loses water and its water fraction falls. Q gains water and its water fraction rises. No salt moves through the vapor path.

Question 3

P has fraction 50/(50 + 10) = 5/6. Q has 100/(100 + 20) = 5/6, so the fractions match.

Question 4

The proposed amounts are 50 and 100, but they give the same water fraction because Q also has twice the salt count. The model links pressure to fraction rather than to water count alone.