Checking Gas Caught on a Solid Surface

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

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Question 1

Choice (2)

Q leaves fewer freely moving gas particles than P, 18 compared with 24.

Question 2

P holds 6/30 = 1/5. Q holds 12/30 = 2/5.

Question 3

Q has 18 free particles and 12 held on the insert, adding to the original 30. The lower pressure follows from particles moving from the gas to the surface while remaining inside.

Question 4

Five move into the gas, giving 23 free and seven held. At the same temperature and volume the pressure increases because the free count rises from 18 to 23.