Counting Chains in a Model Polymer Batch

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

Counting Chains in a Model Polymer Batch

Question 1

Batch A has 8 × 100 = 800 units. Batch B has 4 × 200 = 800 units.

Question 2

Choice (3)

The chains contain the same total number of identical units and no atoms are removed when the units join.

Question 3

Six chains hold 600 units. Conservation gives 800 − 600 = 200 unjoined units.

Question 4

The separated polymer does not include the mass of the unjoined monomer. Account for the remaining monomer as well as the polymer before comparing the final mass with the starting mass.