Checking a Rate When Product Dissolves

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

Checking a Rate When Product Dissolves

Question 1

Choice (2)

At five seconds the collector is still at zero, but six product units are dissolved.

Question 2

The totals are 6 + 0 = 6, 10 + 2 = 12, and 10 + 8 = 18.

Question 3

Each interval adds six units when both locations are counted. The average formation rate is 6/5 = 1.2 units per second in each interval. A larger share of the new product enters the collector later.

Question 4

The reaction forms six new units by five seconds. The dissolved count does not rise in the repeat, so all six new units reach the collector.