Comparing Charge Carriers in Two Salt Solutions

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

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Question 1

Choice (3)

Add the positive and negative ion amounts. Both totals are 60 mmol.

Question 2

P gives 30 × 1 + 30 × 1 = 60. Q gives 20 × 2 + 40 × 1 = 80.

Question 3

Q has the same total amount of ions, but some have charge size 2. Its summed contribution is 80 units versus 60 for P.

Question 4

New Q gives 15 × 2 + 30 × 1 = 60 units, equal to P’s total. It has fewer ions than P, but each Ca^{2+} contributes twice as much as a singly charged ion.