Checking a Decay Record With New Parents

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

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Question 1

Choice (2)

The second interval in Q starts with 60 parents and ends with 30, so 30 decay.

Question 2

P loses 20 of its 40 parents and Q loses 30 of its 60. In both, half the parents present at the beginning of the interval decay.

Question 3

After the first interval, 40 of the original 80 parents remain. The second interval starts with 60, so 20 were added. Equivalently, 30 final parents and 70 daughters account for 100 starting or added parents, 20 more than the original 80.

Question 4

Both runs lose half their parents over the same time. Q starts its second interval with more parents because of the addition. It can therefore finish with more while having the same half-life.