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| Question 1 | * **5 pts – Identify correct variable (deaths)**   + partial credit for wrong answer; right explanation * **10 pts – Identify correct observations**   + individuals who died as a portion of total age group population   + aggregations: age group and over time * **15 pts – DGP**   + Must include aggregating into age cohorts   + Must include dividing deaths by total population of age cohort   + Must include description of real-world phenomena the authors are trying to measure | / 30 |
| Question 2 | * **5 pts – Identify correct variable**   + same as previous question * **10 pts – Identify correct observations**   + same as before EXCEPT…   + must include aggregating by education level * **15 pts – DGP**   + must include real-world phenomena   + must include aggregation steps | / 30 |
| Question 3 | * **10 pts – Answers ‘yes there is a problem’**   + must have some plausible (not necessarily correct) explanation * **10 pts – Correctly identifies selection bias / aggregation bias problem**   + full credit if both age adjustment and cohort composition are addressed   + partial credit if something about the aggregation process is mentioned | / 20 |
| Explanation | Does the student present a clear, logically consistent, step-by-step process through which they arrived at the answer? Answers can be totally wrong, but thinking must be explained clearly. | / 10 |
| Communication | Evaluate the students’ quality of writing. Do they communicate their points clearly? Are there any obvious grammatical errors? | / 10 |