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For a hierarchical linear regression model, with v as the outcome, u as the predictor, and the slope and intercept varying by the group w, which formula would you use?

- O u-v
- O v~u
- O u-v+(1|w)
- O u-v+(v|w)
- O v-u+(1|w)
- ∨~u+(u|w)

7 2 points



Suppose you are running a hierarchical linear regression on an outcome measure of student activism, with students grouped by the NJ high school. South Hunterdon Regional High School is the smallest in the state (about 450 students), while North Star Academy Charter is the largest (about 4500 students). Which statement is correct?

- O The school-specific parameter estimates will shrink toward the overall estimates about the same amount for both schools.
- The school-specific parameter estimates will shrink toward the overall estimates more for South Hunterdon Regional High School than for North Star.
- The school-specific parameter estimates will shrink toward the overall estimates more for North Star Academy Charter than for South Hunterdon.

An important factor in shrintege is how much evidence there is mother a group. North Star is large (= large sample size), meaning that there is a lot of data sopporting per the North Star parameter estimates. That in the form ment those parameters will shrink less. South Hunterdan is small, with less evidence, so the Bayesian hierarchical models of feariety gives less ineight and pulls those estimates towards the overall parameter estimates.