Multiple Regression: Lab Submission page

Secretary: _____

Others: _____ _____

_____ _____

- **Using regmulti-lab.sav, find the parameters to predict R's level of education with five possible independent variables:**
  - **Their father's level of education**
  - **Their mother's level of education**
  - **The number of siblings the respondent has**
  - **The age of the respondent**
  - **The respondent's age when they first married**
- **Write the equation, using all of the intercepts and slopes.**

- **With which variables is education inversely proportional (that is, when they go up, predicted education goes down)?**

- **For which variable(s) is the probability too high that the slope differs from zero only due to sampling error?**

- **Re-run the regression using only those variables whose coefficients are significant ($p<.05$).**
- **Rewrite the equation using only those (*new!*) coefficients.**

- **Using this second equation, what level of education do we predict for a respondent with 2 siblings, born to a mother who got 16 years of education and a father who got 20, got married at 23, and is now 29 years old?**