Homework 6 Answers

Part 1—California results

- How would you very succinctly describe the relationship of the variable RawImm4 with its best demographic (age, education and income) predictor?
 Age ←→ RawImm4: r = -.180; p < .001.
- What percent of the variation in RawImm4 is due to this variable?
 3.24%
- What percent of the variation in the measure RawImm4 is explained by variation in Democrat5? 35.4%
- 4. How much more of the variation in RawImm4 is explained by Democrat7 than is explained by Democrat5?
 2.9%
- 5. What is the correlation between education and political interest? .331
- 6. What is the correlation between education and income? **.545**
- What percent of the variation in Income is explained by education?
 29.7%
- 8. Write out the equation for the regression of RawImm4 on Dem5? RawImm4 = 1.264 + 2.554(Democrat5)
- 9. How significant is the slope in this equation?<.001
- 10. How well does this equation fit the data?Explains 35.4% of the variation since R²= .354

Part 2—Texas results

- How would you succinctly describe the relationship of each of the dependent variables ImmIncl and ImmExcl with their best demographic (age, education and income) predictor?
 Age ←-.272→ ImmIncl; p < .001; Age ←.281→ ImmExcl; p < .001.
- What percent of the variation in each of the measures ImmIncl and ImmExcl is explained by variation in Democrat5?
 ImmIncl .370² = 13.69%; ImmExcl -.517² =26.73%.
- 3. What is the correlation between education and political interest? **r = .179**
- What is the correlation between education and income?
 r = .381
- 5. Write out the equation for the regression of ImmIncl on Democrat5. ImmIncl = 1.382 + .866 (Democrat5)
- 6. Write out the equation for the regression of ImmExcl on Democrat5. **ImmExcl = 2.833 1.186 (Democrat5)**
- 7. How significant is the slope in each equation?Both are significant at less than .001 or p < .001; p < .001.
- How well does each equation fit the data?
 Adj R² = .136 for ImmIncl; Adj R² = .266 for ImmExcl.
- 9. How much more or less effective is Democrat5 in explaining Inclusive attitudes toward immigration in Texas than it is in California? Adj R² = .354 for RawImm4 (California); Adj R² = .136 for ImmIncl (Texas) .218 or 21.8%
- 10. Why might one reasonably say that education is more effective in building social capital in California than it is in Texas?
 Cal Education ←.331→ Political Interest or .331² = 10.9%
 Tex Education ←.179→ Political Interest or .179² = 3.2%