

The fourth assignment includes several problems in simple and multiple linear regression.

1. Chapter 8, problem 24 (page 231). This is an open-ended question about respiratory rates in children.
2. Chapter 8, problem 25 (page 232). This problem looks at votes in Florida in the 2000 presidential election.
3. Chapter 9, problem 13 (page 260). This problem revisits the meat processing example from Chapter 7 and asks you to compare a simple linear regression after a log transformation with a quadratic regression.
4. Chapter 9, problem 18 (page 263–264). This problem investigates the rate of evolution in European flies recently introduced in North America (as measured by differences in wing size).
5. Chapter 9, problem 20 (page 264). This problem looks at winning times in the Kentucky Derby.
6. Read Chapter 9–10 of the textbook. Write out brief answers to the Conceptual Exercises at the end of each chapter. Compare your responses with those given by the authors a few pages later. You do not need to turn in anything for this question.