

MS Module 15: Linear and logistic regression models – homework assignment

(The attached PDF file has better formatting.)

*Homework assignment:*

Solve end of chapter problem 11 (a), (b), and (c) on page 611 (1<sup>st</sup> ed) / page 624 (2<sup>nd</sup> ed) / page 712 (3<sup>rd</sup> ed), showing all work. The numerical answers are in the appendix to the textbook; for the homework assignment, show how the answer is derived.

- ! Part (a), the expected change in reaction time, uses  $\beta_1$ .
- ! Part (b), the expected reaction time, uses the  $x$  value,  $\beta_0$ , and  $\beta_1$ .
- ! Part (c) asks for a probability and uses  $\sigma$  (in addition to the  $x$  value,  $\beta_0$ , and  $\beta_1$ ).