

## MS Module 13: Two-Factor ANOVA without interaction effects – homework assignment

(The attached PDF file has better formatting.)

*Homework assignment:*

Solve one of the following end of chapter problems, showing all work. The numerical answers are in the appendix to the textbook; for the homework assignment, show how the answer is derived.

- ! problem 35 on page 583 (1<sup>st</sup> ed) / page 596 (2<sup>nd</sup> ed), which is problem 45 on page 683 (3<sup>rd</sup> ed)
- ! problem 39 on page 583 (1<sup>st</sup> ed) / page 596 (2<sup>nd</sup> ed)
- ! problem 41 on page 583 (1<sup>st</sup> ed) / page 596 (2<sup>nd</sup> ed)
- ! problem 51 a, b, and c on page 685 (3<sup>rd</sup> ed)
- ! problem 53 on page 685 (3<sup>rd</sup> ed)

The end of chapter problems differ by edition, but they deal with similar scenarios. A homework assignment may compute summary statistics from observed values; some final exam problems give you the summary statistics. You then

- ! derive the ANOVA table from the summary statistics.
- ! test the differences in the treatments.
- ! test the differences by subject or by blocks.