

MS Module 10: Single-Factor ANOVA – Levene's test homework assignment

(The attached PDF file has better formatting.)

Homework assignment:

Solve end of chapter problem 7 on page 551 (1st ed) / page 564 (2nd ed), showing all work. The numerical answers are in the appendix to the textbook; for the homework assignment, show how the answer is derived.

- For Part (a), use Levene's test. You need not show normal plots for the homework. Normal plots are not useful with only seven observations per plate length. Show how you derive the F value for Levene's test and its p value.
- Part (b) requires a single-factor ANOVA to test differences in axial stiffness. Show how to derive the total sum of squares, treatment sums of squares, and error sum of squares; the mean squares; the F value, and the p value.