

All the problems are from J. L. Devore, *Probability and Statistics for Engineering and the Sciences*, 7th ed. If you use software (e.g. JMP) provide explanation of the output.

Problems: 10.4, 10.8, 10.10, 10.14, 10.16, 10.18, 10.22, 10.24.

In addition to the above do

1. Do the analysis of the data in `baseball.jmp` file. The file can be found in the JMP Sample Data Directory (menu Help/Sample Data Directory, in the window that will open choose *Sports*). Do not forget to
 - (a) Verify the assumptions of the ANOVA model.
 - (b) List number of groups, sample size for each group.
 - (c) State the null and alternative hypotheses. Give descriptions for both.
 - (d) Decide on significance level.
 - (e) Decide on the ANOVA method to use.
 - (f) Do the analysis, describe the ANOVA table.
 - (g) State your conclusion.

Show all work.

2. Do the analysis of the data in `michelson.jmp` file (menu Help/Sample Data Directory, in the window that will open choose *Science*). Repeat all the steps above.