

LAB SESSION 7

Outline of lab session:

- follow-up on rank tests (7L–12/14/15) — other requests?
- Minitab demonstrations:
 - * Proportions in Minitab¹: **Stat-Basic Statistics** menu; also useful: **Graph-Probability Distribution Plot** menu,
 - * Nonparametric methods in Minitab²: **Stat-Nonparametrics** menu,
- individual work on the remaining exercises:
8:21,84,1,85; x:13; 7:68; 27:8,19; x:14 (8:62,98; x:15; AI:7; **midterm 2019**) — note recommended order!
- use of software: necessary for Chapter 27 exercises, but for Ch. 8 exercises *only needed* for exact CIs and P -values,
- summary worksheets (for lab review): S.7:2(a); S.8:7.

Notes and questions for specific exercises:

- 7.68: problem should refer to 7.58 (data in `ex07_058.mtw`),
- 8.1, 8.21: large-sample/normal approx. \sim “classical”,
- 8.84, 8.85: compute both manually and using software (after deciding on the most appropriate method to use),
- x.15: calculate rank test statistic manually (not P -value!),
- midterm 2019: use for review after the other problems.

¹ Stata: `ci`, `prtest`, `bitest` commands; R: `prop.test`, `binom.test` functions — more details in solution program files.

² Stata: **Statistics-Summaries-Nonparametric** menu, or Stata/R: directly via commands (see solution programs).