

NOTES FOR EXERCISES IN SESSION 8

- 7:68; 27:8,19; x:14; 6:38,39,115; 8:33; 7:127,129 (x:15; midterm 2012)

Outline of lab session:

- final parts of sample size calculations (8L–15/16/17/18),
- midterm logistics: calculator or phone?, Stata print?,
- individual work on the exercises,
- questions on midterm or home assignment 2 welcome,
- no summary worksheet review (3:30pm): do instead midterm 2012?

Use of software:

- Nonparametric methods in Minitab¹: **Stat-Nonparametrics** menu,
- Sample size calculations based on power in Minitab²:
Stat-Power and Sample Size menu.
- Sample size calculations based on precision in Minitab (only!):
Stat-Power...-Sample Size for Estimation menu.

Notes and questions for specific exercises:

- 6.38, 6.39, 8.33: sample size based on precision: use formulae/Minitab,
- 6.115, 7.127: sample size based on power: use software,
- 7.68: problem should refer to 7.58 (data in `ex07_058.mtw`),
- 7.129: calculate for $n=75$ only (and forget about the graph),
- x.15: calculate the rank test statistic manually (not the P -value).

¹ Stata: **Statistics-Summaries-Nonparametric** menu, or Stata/R: directly via commands (see solution programs).

² Stata: see footnote on slide 8L–17; R: `pwr` library, see solution programs.