

## NOTES FOR EXERCISES IN SESSION 8

- 7:68; 27:8,19; x:14; 6:38,39,115; 8:33; 7:127,129 (x:15; midterm2012)

### Outline of lab session:

- final parts of sample size calculations (8L–15/16/17/18),
- individual work on the exercises,
- questions on midterms (2012/2013 or generally) welcome;
  - \* lab review Thursday 1-2pm: should we focus on midterm?

### Use of software:

- Nonparametric methods in Minitab<sup>1</sup>:  
Stat-Nonparametrics menu,
- Sample size calculations based on power in Minitab<sup>2</sup>:  
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).

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

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