

## 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–14/15/16/17/18),
- individual work on the exercises,
- maybe last-minute questions for home assignment 2. . . ,
- summary worksheet review (3:30pm): S.7:1d; S.8:7,
- questions on midterms (2012 or generally) welcome;
  - \* lab review (Wed 1-2pm): should we focus on midterm 2012?

### 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.