

NOTES FOR EXERCISES IN SESSION 6

- 7:50,4,73,74,64,143,145,91,102,103,104,132 (6:108,142; 7:58,59,66,93; home assign.2009:2) — note suggested (non-random!) order,
- practice (again) also a proper layout of the statistical analysis: notation, assumptions/model, calculations, conclusions,
- use of software: recommended for all Chapter 7 exercises.

Outline of lab session:

- Minitab demonstrations:¹
 - * from different menus within **Stat-Basic Statistics** menu,
 - * also useful: **Graph-Probability Distribution Plot** menu,
- summary worksheet for the lab review: S.7:1(a,b),
- individual work on the remaining exercises.

Notes and questions for specific exercises:

- 7.73,7.74: you may also analyse manually (first), using formulas and calculator, but repeat using software,
- 7.102,7.103,7.104: you may do 7.58 and 7.59 first, if helpful as a review of 1-sample inference,
- 7.132: critique the quoted description of the analysis,
- 7.145: note that after log-transformation, the backtransformed estimate and confidence interval are for the median, not the mean (lecture slide 6L–9),
- home2009.2: skip parts (5)–(6) based on simulation.

¹ Stata: `ci` and `ttest` commands, or **Statistics-Summaries...-Summary...** or **-Classical tests...** menus; R: `t.test` and `prop.test` functions — more details in solution program files.