

NOTES FOR EXERCISES IN SESSION 5

- 5:54,14,**7**; 6:13,14,**33**,45,87,140,70,**95**,68,103 (5:9,40; 6:11,12,46,85,96; x:10,11,12,**13**) — recommended order.

Outline of lab session:

- brief lecturing from lecture 5 on extra testing topics:
 - * one/two-sided tests, and testing by confidence interval (5L–18/19), also including Exercises 6.47 and 6.55,
- Minitab demonstration for confidence intervals and tests: using the menu: **Stat-Basic Statistics-1 Sample Z**,
- summary worksheets (3:30pm): S.1:1; S.6:1; S.5:3,
- individual work on the exercises,
- time for questions on the first home assignment,

Notes and questions for specific exercises:

- 5.54: skip part b), or use the Appendix slide (5L–22),
- 6.13,6.14: do calculations both by hand (calculator; the mean yield equals 123.80) and using software,
- 6.68: not a normal distribution problem, so use general testing principles instead,
- 6.95: see page 5L–19 on using confidence intervals for statistical tests,
- 6.140: use software (maybe also compute the test by hand), and state the assumptions of the analysis,
- x:10, x:11, x:12: extra problems based on PSLS applets.
- x:13: extra problem for the lab review (interpretation of tests).