

## NOTES FOR EXERCISES IN SESSION 7

- 8:21,84,1,85,62; x:14; 7:68; 27:8,19; x:15 (8:98; x:16; midterm 2012, 2013) — note recommended order!
- use of software: necessary for Ch. 27 exercises, but for Ch. 8 exercises *only needed* for exact CIs &  $P$ -values,
  - \* Proportions in Minitab<sup>1</sup>: `Stat-Basic Statistics` menu; also useful: `Graph-Probability Distribution Plot` menu,
  - \* Nonparametric methods in Minitab<sup>2</sup>: `Stat-Nonparametrics` menu.

### Outline of lab session:

- Minitab demonstrations (see above),
- summary worksheet for the lab review: S.7:2(a); S.8:7,9,
- individual work on the remaining exercises.

### Notes and questions for specific exercises:

- 7.68: problem should refer to 7.58 (data in `ex07_058.mtw`),
- 8.84, 8.85: compute both manually and using software (after deciding on the most appropriate method to use),
- x.16: calculate rank test statistic manually (not  $P$ -value!),
- midterm 2013: use for review after the other problems.

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<sup>1</sup> Stata: `ci`, `prtest`, `bitest` commands; R: `prop.test`, `binom.test` functions — more details in solution program files.

<sup>2</sup> Stata: `Statistics-Summaries-Nonparametric` menu, or Stata/R: directly via commands (see solution programs).