

NOTES FOR EXERCISES IN SESSION 12

- 6:99,**107**,38,39,115; 8:33; 7:**127**; 12:35,36; x:23 (6:103,108,111; 7:129; 8:**103**; final2016:1; final2013:3; **final2014:3**)

Outline of lab session:

- lecture follow-up: sample size based on power (12L–13/14/15/16),
- no summary worksheet for the lab review (could look at S.7:1(d)),
- individual work on exercises: a few on statistical inference and then on sample size + general time for questions,
- questions/requests for last lecture?

Minitab for sample size and power:¹

- power and sample size: **Stat-Power and Sample Size** menu.
- sample size based on precision:
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 formulas/Minitab,
- 6.107: reflect on some of the possible misconceptions (12L–4),
- 6.115, 7.127: sample size based on power: use software,
- 7.129: calculate for $n = 75$ only (and forget about the graph),
- 8.103: (extra) formula for sample size based on precision to compare two proportions,
- x.23: calculate by formulas in lecture (12L–11) or the Freecalc web interface (with $Se = Sp = 1$),
- some exam questions included on varied topics.

¹ Stata: From Stata 13 onward, use the menu **Statistics-Power and Sample Size**; R: **pwr** library, see solution programs.