

LAB SESSION 12

Outline of lab session:

- a few extra remarks on sample size calculations (12L–16/17/18),
- Minitab review 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.
- individual work on exercises (statistical inference and sample size): 6:99,107,38,39,115; 8:33; 7:127; 12:35,36; x:23 (6:103,108,111; 7:129; 8:103; **final2020:2**; final2016:1,3),
- summary worksheet: S.7:1(d), S.7:2(b,c); Moodle Quizzes 10-11,
- general time for questions and discussions,
- questions/requests for last lecture?

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),
- some exam questions included on varied topics (anova/regression, non-parametric, regression); the 2020 exam was in a different format.

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