

## LAB SESSION 12

### Outline of lab session:

- brief follow-up from lecture (12L–15/16/17),
- Minitab review for sample size and power:<sup>1</sup>
  - \* power and sample size: **Stat-Power** and **Sample Size** menu.
  - \* sample size based on precision:  
**Stat-Power...-Sample Size for Estimation** menu.
- summary worksheet (3:30pm): S.10 (**sales**), S.7:1(d),
- 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; **final2014:3**; final2016:1,3)
- general time for questions and discussion of home assignment,
- 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) or the Freecalc web interface (with  $Se = Sp = 1$ ),
- some exam questions included on varied topics.

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