

University of Toronto
Department of Computer & Mathematical Sciences
STAB57: an Introduction to Statistics
Week 6 Assignment

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[-textbook](#)

This week's list of problems is based on the material from:
Chapter 6, §1,2
You are expected to work on this list of problems prior to the upcoming tutorial.
Problems have the following tags:
🔒: difficult, 📖: Book exercise, Ⓜ: extra exercise

Terminology and Concepts to learn:

- minimal sufficient statistics
- $\hat{\mu}$: bias, variance, the mean squared error, estimated mean squared error
- consistency in probability,
- consistency almost surely
- confidence intervals

Problem 1 📖

Practice your skills by doing problems 6.3.13, 6.3.15, 6.3.12, 6.3.23, 6.3.24

Problem 2 📖

Practice your skills on confidence intervals by computing the necessary confidence intervals for exercises 6.3.1, 6.3.2, 6.3.3, 6.3.6