



<u>Course</u> > <u>Unit 7:</u> ... > <u>Lec. 14:</u>... > 4. Exer...

4. Exercise: Hypothesis testing versus estimation

Exercises due Apr 8, 2020 05:29 IST Completed

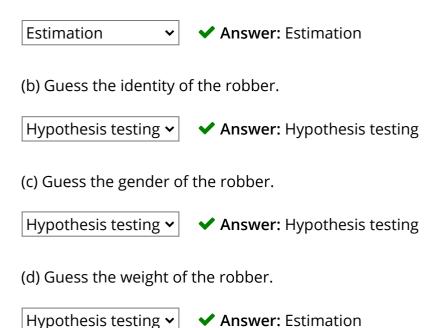
Exercise: Hypothesis testing versus estimation

4/4 points (graded)

For each one of the following situations, state whether it corresponds to a hypothesis testing or estimation problem.

A grocery store was robbed yesterday morning. The police have determined that the robber was one of the five customers who visited a nearby bank earlier that morning. For those customers, the police know their identity as well as the time that they visited the bank. The police want to:

(a) Guess the time at which the grocery store was robbed.



Grading note: Since there is some ambiguity in this problem. We will give credit to all answers in this problem.

Solution:

In parts (a) and (d), we are trying to guess a numerical quantity, and we want a precise estimate, without a hope of guessing that quantity with perfect accuracy. These are estimation problems.

In parts (b) and (c), we are trying to choose between a small number of alternatives, so these are hypothesis testing problems.

Submit

You have used 1 of 1 attempt

1 Answers are displayed within the problem

Discussion

Hide Discussion

Topic: Unit 7: Bayesian inference:Lec. 14: Introduction to Bayesian inference / 4. Exercise: Hypothesis testing versus estimation

