

1 MTH225-8 IC3: Estimating the parameter of a Poisson distribution

Names: (signatures only please, printed names will not be counted)

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| 1.) | 4.) |
| 2.) | 5.) |
| 3.) | 6.) |

1.1 Overview

The objective of this exercise is to estimate the parameter of a Poisson distribution.

Suggestion: experienced programmers almost never write anything from scratch. You should start with an `.Rnw` file and a `.stan` file from a previous exercise and modify them for this problem.

The data is in `MTH225-8_IC3.csv`.

1) What is your point estimate for lambda?

2) What is your 95% confidence interval for lambda?

3) What is your estimate of the probability that lambda exceeds 12?