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Lesson 6

Graded Quiz • 30 min

coursera

Due Nov 8, 1:59 AM EST



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Lesson 6

Quiz • 30 min **Go to next item**



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1. For Questions 1-2, consider the following experiment:

0 / 1 point



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Suppose you are trying to calibrate a thermometer by testing the temperature it reads when water begins to boil. Because of natural variation, you take several measurements (experiments) to estimate θ , the mean temperature reading for this thermometer at the boiling point.

You know that at sea level, water should boil at 100 degrees Celsius, so you use a precise prior with $P(\theta = 100) = 1$. You then observe the following five measurements: 94.6 95.4 96.2 94.9 95.9.

Your grade

83.33%

- What will the posterior for θ look like?

View Feedback



Most posterior probability will be concentrated near the sample mean of 95.4 degrees Celsius.

We keep your highest score



Most posterior probability will be spread between the sample mean of 95.4 degrees Celsius and the prior mean of 100 degrees Celsius.