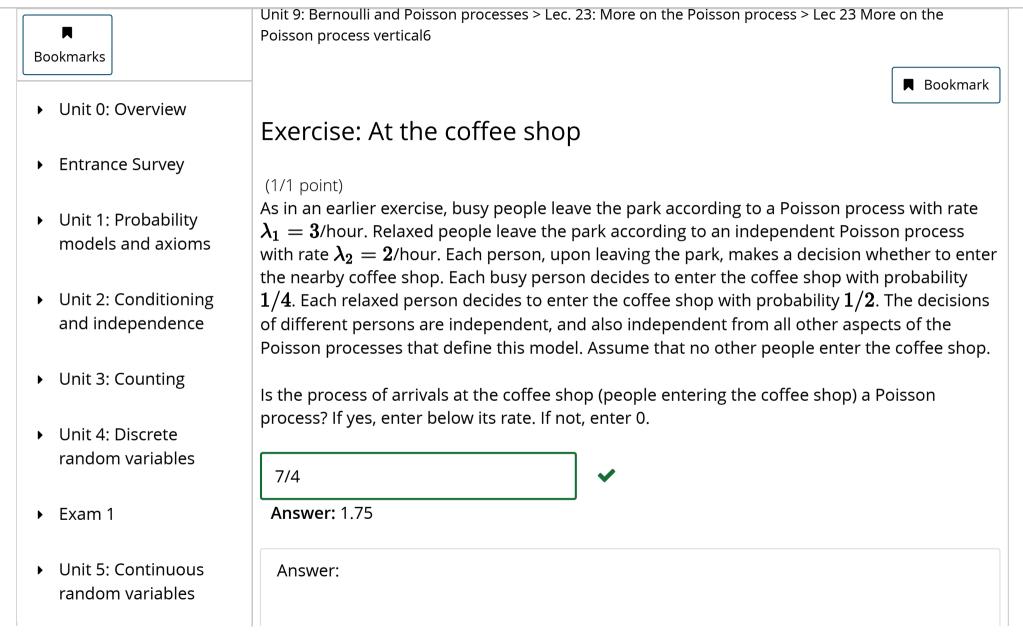


## MITx: 6.041x Introduction to Probability - The Science of Uncertainty



- Unit 6: Further topics on random variables
- Unit 7: Bayesian inference
- ▶ Exam 2
- Unit 8: Limit theorems and classical statistics
- ▼ Unit 9: Bernoulli and Poisson processes

Unit overview

Lec. 21: The Bernoulli process

Exercises 21 due May 11, 2016 at 23:59 UTC

Lec. 22: The Poisson process

Exercises 22 due May 11, 2016 at 23:59 UTC

Lec. 23: More on the Poisson process

From our discussion of splitting, we see that busy people who enter the coffee shop form a Poisson process with rate  $3 \cdot (1/4)$ . Similarly, relaxed people who enter the coffee shop form a Poisson process with rate  $2 \cdot (1/2)$ . Because of our independence assumptions, these two Poisson processes are independent. The process of arrivals at the coffee shop corresponds to the merging of these two processes and is therefore Poisson with rate 3/4+1=7/4.

You have used 1 of 2 submissions

Exercises 23 due May 11, 2016 at 23:59 UTC

Solved problems

Additional theoretical material

**Problem Set 9** 

Problem Set 9 due May 11, 2016 at 23:59 UTC

(A)

**Unit summary** 

Unit 10: Markov chains

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