



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



Bookmarks

- ▶ Unit 0:
Overview
- ▶ Entrance
Survey
- ▶ Unit 1:
Probability
models and
axioms
- ▼ Unit 2:
Conditioning
and
independence

Unit overview

**Lec. 2:
Conditioning and
Bayes' rule**

 Exercises 2 due Feb
17, 2016 at 23:59 UT

**Lec. 3:
Independence**

 Exercises 3 due Feb
17, 2016 at 23:59 UT

Solved problems

Problem Set 2

 Problem Set 2 due Feb
17, 2016 at 23:59 UT

 Unit 2: Conditioning and independence > Lec. 2: Conditioning and Bayes' rule > Lec 2
Conditioning and Bayes rule vertical


Bookmark

Exercise: Conditional probabilities

(2/2 points)

Are the following statements true or false?

1. If Ω is finite and we have a discrete uniform probability law, and if $B \neq \emptyset$, then the conditional probability law on B , given that B occurred, is also discrete uniform.

True ▼



Answer: True

2. If Ω is finite and we have a discrete uniform probability law, and if $B \neq \emptyset$, then the conditional probability law on Ω , given that B occurred, is also discrete uniform.

False ▼



Answer: False

Answer:

1. True, because the outcomes inside B maintain the same relative proportions as in the original probability law.
2. False. Outcomes in Ω that are outside B have zero conditional probability, so it cannot be the case that all outcomes in Ω have the same conditional probability.

You have used 1 of 1 submissions

© All Rights Reserved



© edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

