



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



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## Exercise: Sampling methods

(1/1 point)

You are interested in the number of chocolate chips on a cookie. To estimate this number, you consider two different experiments:

A. Pick a cookie at random, all cookies being equally likely to be picked, and count the number of chocolate chips on that cookie.

B. Pick a chocolate chip at random, all chocolate chips being equally likely to be picked, and count the number of chocolate chips on the cookie to which the selected chocolate chip belongs.

Which method will tend to give higher results?



Answer: B


Answer:

With the second method, cookies with many chocolate chips on them are more likely to be selected. Therefore, the second method will tend to produce larger results.


- ▶ Unit 6: Further topics on random variables
- ▶ Unit 7: Bayesian inference
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- ▶ 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**


*You have used 1 of 1 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 

**Unit summary**

► Unit 10: Markov  
chains

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