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## 19. Exercise: Sampling methods

Exercises due May 13, 2020 05:29 IST Completed

### Exercise: Sampling methods

1/1 point (graded)

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?

B



✓ Answer: B

#### Solution:

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.

Submit








You have used 1 of 1 attempt

**i** Answers are displayed within the problem

Discussion

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|--|--------------------|
|  <u>Ties back into sampling people on buses (unit 4)</u><br>I'm reviewing the earlier lectures and this one ties in well with Unit 4 solved problem #2, sampling peopl... | 1                  |
|  <u>The last graded question!</u><br>The last graded question in this course had to be a single attempt question. :-) As an indicator of where t...                       | 3                  |
|  <u>A fun Hint</u><br>See the previous slide. You will literally see the relevant cookies. :-) Treat yourself to an answer and a ha...                                    | 1                  |
|  <u>Helpful Hint</u><br>Unlike other comments here, this is not intuitive or easy in general. it is easy only if you have went throu...                                   | 2                  |
|  <u>Useful hint</u><br>Please read the question two times and then answer intuitively; there can't be a more simple question t...   | 7                  |
|  <u>Please read the question before answering...</u><br>Seems like a trap   | 8                  |
|  <u>In the end, which video makes you hard to understand the most?</u>   | 2                  |

