

# Beth Will Lewis Carroll test

[Judge View](#) [Tree View](#)

List of Debates

Hide notes

Side: None

Phase: **Make Argument** Remaining: 10:00

At root

Q

(H)

A bag contains one counter, known to be either white or black with probability 1/2. A white counter is put in, the bag shaken, and a counter drawn out, which proves to be white. What is now the chance of drawing a white counter?

H

2/3

D

1/2

Notes

Q

If I update using bayes rule based on observing that a white counter was drawn the first time, what is the chance of drawing a white counter the second time?

H

2/3

D

Probably 2/3

1

Payment:

H

☐

D

☐

None

☒

Recurse

Notes

Q

What is the probability of drawing a white counter at the start (before the white counter is put in)?

H

D

1/2

3

Payment:

H

☐

D

☐

None

☒

Recurse

Notes

Q

If I break down the probabilities into scenarios, and then discard scenarios where a white counter is not drawn the first time, what is the probability of drawing a white counter the second time?

H

2/3

D

Probably 2/3

2

Payment:

H

☐

D

☐

None

☒

Recurse

Notes

Q

Does putting in a white counter then removing a white counter change anything about the number of white and black counters in the bag?

H

D

No

4

Payment:

H

☐

D

☐

None

☒

Recurse

Notes

Beth means - if there are a certain number of black and white counters, and you put in one white counter and remove one white counter, there are the same number of black and white counters

Q

Meta-debate: Given the questions and answers in this round, which is the better answer to the question?

H

2/3

D

Draw

5

Payment:

H

☐

D

☐

None

☒

Recurse

Notes

Q

Therefore, is the probability of drawing a white counter still 1/2?

H

No, you have different information about what counter is in the bag, the probability is 2/3.

D

Yes

6

Payment:

H

☒

D

☐

None

☐

Recurse

Notes

Beth means: if you have two bags with the same number of black and white counters, you have the same probability of drawing a white counter from either