William:H Mark:D Lewis Carroll

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At root

0 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: It is unclear

Notes:

Q: What is the probability that a white counter is drawn the first time?

H: 3/4 D: 3/4

2 Payment: H D None Recurse

Notes:

Q: If you put a white counter in and take a white counter out, is the bag unchanged?

H: Yes D: Yes

1 Payment: H D None Recurse

Notes:

Q: What is the probability that a white counter is drawn the first time and the second time?

H: 1/2 D: 1/2

7 Payment: H D None Recurse

Notes:

Q: Is the probability of drawing out a white counter at the beginning 1/2?

H: Yes D: Yes

3 Payment: H D None Recurse

Notes:

Q: Given:
probability that a white counter is drawn the first time = 3/4
probability that a white counter is drawn the first time and the second time = 1/2
What is the probability that a white counter is drawn the second time, given that it is drawn the first time?

H: 2/3 D: It is unclear

Q: Thus does it seem likely that the probability of drawing a white counter at the end is also 1/2?

H: It might seem like that to some people, but it is incorrect D: Yes

4 Payment: H D None Recurse

8 Payment: H D None Recurse

Notes

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

H 2/3 D It is unclear

9 Payment: H D None Recurse

Notes

Notes

Q Should we be uncertain when dealing with probabilities that are complicated?

H Not when we can calculate the answer, as in this problem D Yes

6 Payment: H D None Recurse

Notes