1. Two five-sided dice

Problem 1. Two five-sided dice

4/4 points (graded)

You roll two five-sided dice. The sides of each die are numbered from 1 to 5. The dice are “fair"" (all sides are equally likely), and the two die rolls are independent.

Part (a): Event A is “the total is 10" (i.e., the sum of the results of the two die rolls is 10).

1. Is event A independent of the event “at least one of the dice resulted in a 5"?

   No ✔

2. Is event A independent of the event “at least one of the dice resulted in a 1"?

   No ✔

Part (b): Event B is “the total is 8."

1. Is event B independent of getting “doubles" (i.e., both dice resulting in the same number)?

   No ✔

2. Given that the total was 8, what is the probability that at least one of the dice resulted in a 3?

   2/3 ✔

提交 You have used 3 of 3 attempts

讨论

隐藏讨论

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	Where can we find solution set to the problem set for the previous week ? Is there a place where the solution...	3
☑	deadline what is the deadline for problem set2 , some where it is showing Sept 19 and somewhere it is showing Sept 18	5
☑	I have a hard time understanding 1b Is event A independent of the event "at least one of the dice resulted in a 1", does that mean that at least 1 di...	7
?	Regarding Independence in general...? Regarding independence in general, answering the question: "Does event A affect result B if occurred?" Woul...	7
?	clue needed for question 2(b) I have drawn sample space for both the dice. The grader shows my answer is incorrect. Is there any other clue?	3
💬	Got all correct in first attempt.. I understand now the concept of independence, conditional probability and disjoint properly	4
💬	Understading part b (2) If the total is know to be 8 - then the combinations for summing to that, with the 5 faced dice. Would that co...	5
?	Restating b-1 I understood the question to mean. "You learned that A happens. Given that information, is B dependent?" B...	2
💬	1A : Independence of events In 1:A , mathematically we get the correct answer, but intuitively, even before getting the information "at leas...	8
💬	Dependency Lets say Event A has equally possible outcomes b, c, and d. Can we say that A is independent of c? or does A i...	3
☑	2 dice vs 2 rolls or both? My question is a bit silly but at one point, I did find myself pondering over it. Am I right in interpreting that th...	2

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