Week 8

LIVE Session

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Accepted Answers:

1/2 1/3 1/4

ence	Announcements	About the Course	Ask a Question	Progress Men	tor
Assignment 0					
he due date for submitting this assignment has par	ssed.				
			Due on	2021-08-23, 23:	59 IST.
 Suppose you roll a die twice. What is the probabi 	-	number in both the rolls?			1 point
1/2	ity that you get a prime	iumber in both the rolls?			r point
O 1/4					
O 1/6					
O 1/36					
No, the answer is incorrect. Score: 0					
Accepted Answers: 1/4					
Suppose you roll a die n times. What is the proba	hility that you get a prim	a number in all the n rolle?			1 point
2) Suppose you roll a die it times. What is the proba	bility that you get a print	e number in all the fi folis?			r point
$\frac{1}{2}$					
1 2 ⁿ					
$\frac{1}{6^n}$					
None of these.					
No, the answer is incorrect. Score: 0					
Accepted Answers:					
2 ⁿ					
 In this course, you will study the following case st flonty Hall. In the show, there are 3 closed doors, one 					1 point
sob can choose only one door among the three (withou		-			
therwise. Suppose Bob chooses Door 1. The host Mo eep his choice of Door 1 or to switch his choice to Doo		_		-	either
Door 1, keep his original choice.		,			
Door 3, switch his choice.					
ODoes not matter. Both Door 1 and 3 have 50% of	hance of having the car.				
No, the answer is incorrect. Score: 0					
Accepted Answers: Door 3, switch his choice.					
 The instructor designs a single answer MCQ ques ubmits this question to the NPTEL staff, who shuffle al 					1 point is still
ne correct answer after shuffling?				·	
O 1/2					
○ 1/4 ○ 3/4					
○ 1/24					
No, the answer is incorrect.					
Score: 0 Accepted Answers:					
1/4					
5) Merlin selects two real numbers and puts them in	,			nd reveals the	1 point
umber in that envelope. He asks you whether the num	ber in the other envelope	e is bigger than the one rev	/ealed.		
an you guess correctly with probability greater than 1/	2?				
Yes					
□ No □ Maybe					
No idea, but I'd like to know					
No, the answer is incorrect.					
Score: 0 Accepted Answers:					
Yes No idea, but I'd like to know					
C)	4b				d
How many people do you need in a room so that	the probability of at leas	t two of them sharing the s	same birthday is greate	ertnan 1/27	1 point
○ 365 ○ 100					
○ 23					
O 57					
No, the answer is incorrect. Score: 0					
Accepted Answers: 23					
 Consider the statement: In a long coin-tossing ga frequently from one player to the other. This statemen 		n the winning side for abou	ut half the time, and th	e lead will pass not	1 point
O Is True					
○ Is False					
Cooks weird					
O Sounds about right					
No, the answer is incorrect. Score: 0					
Accepted Answers: Is False					
You are given two concentric circles C1 and C2 w	rith radii r and r/2 respec	tively. What is the probabil	ity, upon randomly che	oosing a chord of the	1 point
igger circle that it will intersect the smaller one?			,, sporrandomy one		. point
1/2					
1/3					
☐ 1/4 ☐ Cannot be computed					
No, the answer is incorrect.					
Score: 0					