



NPTEL » Advanced Probability Theory



Announcements

About the Course

Ask a Question

Progress

Mentor

1 point

1 point

Unit 2 - Week 1

How does an NPTEL online

Advanced Probability Theory

Advanced Probability Theory

Advanced Probability Theory

O Quiz: Assignment 1

Week 1 Feedback Form

Course outline

course work?

Week 1

Lec 01

Lec 02

Lec 03

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Download Videos

Assignment Solution

Can't say

Score: 0

0 16/52

26/52

0 1/52

2/52

1/52

5/6

0 1/2

O 1/3

1/6

O 1/3

5/16

1/2

3/8

Score: 0

5/16

5/6

None of the above

Accepted Answers:

No, the answer is incorrect.

No, the answer is incorrect. Score: 0

No, the answer is incorrect. Score: 0

No, the answer is incorrect.

Accepted Answers:

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8) A card is randomly drawn from a standard 52-card deck. Find the probability of drawing a queen and a heart.

10) Five fair coins are flipped simultaneously, what is the probability of having a combination of 3 Heads and 2 tails?

9) A jar contains 2 pink, 6 red, and 4 blue marbles. If you pick one marble at random, what is the probability that the marble you pick will be red or blue? 1 point

Assignment 1	
The due date for submitting this assignment has passed.	Due on 2020-02-12, 23:59
As per our records you have not submitted this assignment.	
 What is the size of the sample space of the event consisting of the toss of a fair die followed by the together. 	oss of a biased coin with probability of head
equal to 0.6?	
O 6	
O 2	
○ 12 ○ 2	
○ 8	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
12	
2) Which of the following is possible values of the probability of an event?	
1 0.5	
None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
0 1	
3) How many valid, yet different results are there for Bertrand's paradox?	
O At least 3	
O1	
O ₂	
O 0	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
At least 3	
4)	
4) Find P(B) if P(A) = 0.3, P(AUB)=0.1 and P(A∩B) = 0.5.	
0.4	
0.3	
0.6	
0.2	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
0.3	
5) Can we construct an event A such that P(A) = 0.6 and P(A') = 0.5 ?	
○ No	
○ Yes	
Can't say	
O Depends on the Sample Space	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
No	
6) Find $P(A \cap B)$ if $P(A \cup B \cup C) = 0.5$, $P(A) = 0.5$, $P(B) = 0.4$, $P(C) = 0.3$, $P(A \cap C) = 0.2$, $P(B \cap C) = 0.4$) =
$0.3, P(A \cap B \cap C) = 0.1$	
0.4	
0.5	
0.3	
0.6	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: 0.3	
7) What is the probability of complement of a null event?	
O 0	
□ 4	