Quiz for Week 3

(1) This is a preview of the published version of the quiz

Started: 2 Oct at 23:50

Quiz instructions

Quiz time is from 17.15 to 18.00 of August 30, 2023.

Question 1 1 pts

Let A and B be independent events. If $P\left(A\right)=0.3$ and $P\left(B\right)=0.5$, then $P(A\cup B)=$

- 0.8
- 0.65
- 0.15
- None of the given options

Question 2 1 pts

Suppose 10% of the population are infested with a certain virus. The probability for a truly infested person to be tested positive is 0.8; while the probability for a non-infested person to be tested positive is 1/90. If Mike is tested positive, what is the probability that he is truly infested by the virus?

- 8/9
- O 9/10

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Question 3	1 pts
Please refer to the "MONTY HALL PROBLEM" in our le decide whether to switch your choice of the door by rollinumber less than or equal to 4, you will switch; otherwist original door. Which of the following options is correct?	ng a fair die. If you roll a
With probability greater than 1/2, you will get the car.	
○ With probability smaller than 1/2, you will get the car.	
○ With probability equal to 1/2, you will get the car.	

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