Quiz for Week 2

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

Started: 2 Oct at 23:47

Quiz instructions

Quiz time is from 17.15 to 18.00 of August 23, 2023.

Question 1

1 pts

Let A,B,C be events of the sample space S. Suppose P(A)=0.25, $P\left(B\right)=0.35$, and P(C)=0.4. Which of the following is INCORRECT?

- $\bigcirc P(A \cup B) \leq 0.6$
- $\bigcirc P(A \cap C) \leq 0.25$
- P(A) + P(B) + P(C) = 1. So $A \cup B \cup C = S$.
- All of the above options are correct.

Question 2

1 pts

Let A,B be events of a sample space. P(A)=0.3; P(B)=0.45; P(B|A)=0.5. Then P(A|B)=?

- 1/3
- \bigcirc 2/3
- O 1/2
- O Not computable based on the available information.

Question 3

1 pts

Let A and B be events, such that $P(A \cup B) = P(A) + P(B)$. Which of the following statement must be TRUE?

- \bigcirc It is impossible that $\pmb{A}=\pmb{B}$.
- \bigcirc If $A \subset B$, we may have P(B) = 0.1.
- All of the above options are incorrect.

Saved at 23:48

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