Quiz 1 Results for Ali Asad
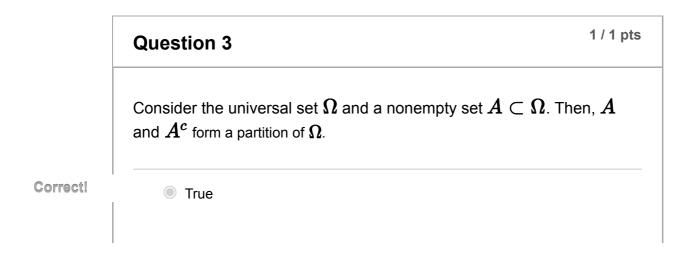
Score for this quiz: **10** out of 10
Submitted Jan 30 at 2:47pm
This attempt took 11 minutes.

Question 1   1 / 1 pts

A model is an approximate representation of a situation.

Correct!

- ◉ True

- ○ False

Question 2   1 / 1 pts

In probabilistic models with continuous sample spaces, the probabilities of single-element events are sufficient to characterize the complete probability law.

- ○ True

Correct!

- ◉ False

Question 3   1 / 1 pts

Consider the universal set Ω and a nonempty set $A \subset \Omega$. Then, A and A^c form a partition of Ω.

Correct!

- ◉ True

○ False

Question 4

1 / 1 pts

Consider the following sample space:

{1, 5, 9, 13, ...}

What is the type of this sample space?

○ Finite

Correct!

◉ Countably Infinite

○ Uncountably Infinite

Question 5

1.5 / 1.5 pts

Consider an experiment consisting of 3 successive tosses of a fair coin. Consider the following event:

A = {1st toss does not result in Tail}

What is P(A)?

Correct!

◉ 0.5

○ 0.25

○ 0.33

○ 0.1

Question 6

1.5 / 1.5 pts

A 6-sided die is loaded/designed in such a way that each even face/outcome is twice as likely as each odd face/outcome. Find the probability that the outcome of rolling this die is less than 6.

○ 1/6

Correct! ⦿ 7/9

○ 5/6

○ 2/9

Question 7

1.5 / 1.5 pts

Out of the students in a class, 60% are fans of Sarfaraz Ahmed, 60% are fans of Muhammad Rizwan, and 20% are fans of both cricketers. What is the probability that a randomly selected student is neither a fan of Sarfaraz Ahmed nor Muhammad Rizwan.

○ 0.1

Correct! ⦿ 0

○ 0.4

○ 0.5

Question 8

1.5 / 1.5 pts

Karachi Kings have selected a squad of 15 players for the upcoming Pakistan Super League. The selected squad consists of 5 batters, 5 bowlers, 3 all-rounders, and 2 wicketkeepers. Assume that all players are equally likely to get injured before the start of the Pakistan Super League. What is the probability that the first player to get injured will be a batter?

○ 10/15

Correct!

◉ 1/3

○ 5/11

○ 2/15

Quiz Score: **10** out of 10