Probability Quiz

Due No due date **Points** 2 **Questions** 2
Available after Mar 10 at 12:55 **Time Limit** None
Allowed Attempts Unlimited

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	12 minutes	2 out of 2

Submitted Mar 23 at 19:09

Question 1

1 / 1 pts

What is P(A, B) when A and B are disjoint events?

- P(B)
- P(A) + P(B)
- P(A)×P(B)
- 0

Correct!

That is correct. $A \cap B = \varnothing$, so the joint probability would be zero.

Question 2

1 / 1 pts

The completion of a construction project may be delayed due to rain. The probability of having rain is 0.6, the probability of completing the project on-time when there is no rain would be 0.85, and the probability of completing the project on-time when there is rain would be 0.35. Calculate the probability of completing the project on-time.

- 0.21
- 0.35
- 0.85
- 0.55

Correct!

A: Completing the project on-time, B: Having rain, B': No rain.

Using marginalisation, we can calculate the probability of A considering all possibilities of rain including B and B':

$P(A) = P(A, B) + P(A, B') = P(B) \times P(A|B) + P(B') \times P(A|B') = 0.6 \times 0.35 + 0.4 \times 0.85 = 0.55$