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   the Course

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**Module 1: Homework**
Homework due Sep 26, 2016 at
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▶ Entrance Survey

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   Fundamentals of
   Probability, Random
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   and Joint Distributions**

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Module 2: Fundamentals of Probability, Random Variables, Distributions, and Joint Distributions > Fundamentals of Probability > Conditional Probability - Quiz

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# Question 1

 (1/1 point)
True or false: If two events A and B are independent, then the probability of B conditional on A having occurred is equal to the probability of B. In probability notation, $P(B|A)=P(B)$.

⊙ a. True  ✔

○ b. False

**EXPLANATION**

True. Conditional probability refers to the case where knowing the outcome of one event tells you something about the likelihood of a second event. However, if the two events are independent, then knowing that A has occurred does not tell you any new information about the probability that B will occur. In this case, the probability that B occurs conditional on A is equal to the probability that B occurs regardless of the outcome of A.

*You have used 1 of 1 submissions*