11-3 Independent and Dependent Events

Probability of Independent Events

If A and B are independent events, then
$P(A \text{ and } B) = P(A) \cdot P(B)$.

Probability of Dependent Events

If A and B are dependent events, then $P(A \text{ and } B) = P(A) \cdot P(B \mid A)$, where $P(B \mid A)$ is the probability of B, given that A has occurred.

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