

Answer on Question #43173-Math-Statistics and Probability

For the given pair of events, classify the two events as independent or dependent. (If two events are technically dependent but can be treated as if they are independent according to the 5% guideline, consider them to be independent.)

Randomly selecting a city in Texas

Randomly selecting a county in Texas

- A. The two events are dependent because the occurrence of one does not affect the probability of the occurrence of the other.
- B. The two events are independent because the occurrence of one affects the probability of the occurrence of the other.
- C. The two events are dependent because the occurrence of one affects the probability of the occurrence of the other.
- D. The two events are independent because the occurrence of one does not affect the probability of the occurrence of the other.

Answer

D. The two events are independent because the occurrence of one does not affect the probability of the occurrence of the other. I.e. if you choose a random city in Texas, you can still choose a random county in Texas.