

Independent events

Conditional probability

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Dependent events

Are the events independent or dependent?

$$P(A) = \frac{3}{10} \quad P(B) = \frac{3}{10} \quad P(A \text{ and } B) = \frac{9}{100}$$

Are the events independent or dependent?

$$P(A) = \frac{7}{10} \quad P(B) = \frac{7}{20} \quad P(A \text{ and } B) = \frac{49}{200}$$

A and B are independent

$$P(B) = \frac{3}{5} \quad P(A \text{ and } B) = \frac{21}{100} \quad P(A) = ?$$

A and B are dependent.

$$P(B) = \frac{3}{10} \quad P(A \text{ and } B) = \frac{3}{40} \quad P(A|B) = ?$$

A and B are dependent.

$$P(A) = \frac{3}{5} \quad P(A \text{ and } B) = \frac{39}{100} \quad P(B|A) = ?$$