



Warm Up

Independent Events

If two events A and B are independent, then what is true about the following conditional probabilities?

$P(A | B) =$ _____ and $P(B | A) =$ _____

Example:

- You have a standard 52-card deck of playing cards.
- One event is that you draw a King on one draw of a card.
- Another event is that you draw a Red card on one draw of a card.

1. Find $P(\text{King} | \text{Red}) =$ _____ and $P(\text{King}) =$ _____

2. Find $P(\text{Red} | \text{King}) =$ _____ and $P(\text{Red}) =$ _____

3. Are these independent events? _____

MAIN IDEAS: List the Main Ideas for Today's Lesson
