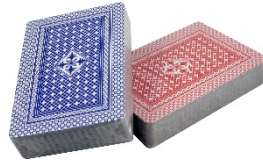


Name: _____ Hour: _____ Date: _____

Can you get a pair of Aces or a pair of Kings?



Rules of the game. Five cards total: two aces and three Kings. The player chooses their first card and records the results, and then chooses their second card (without replacement) and records the result. **The player wins if they get a pair of Aces or a pair of Kings.**

1. Choose one person who is the dealer and one who is the player. Play the game 10 times.

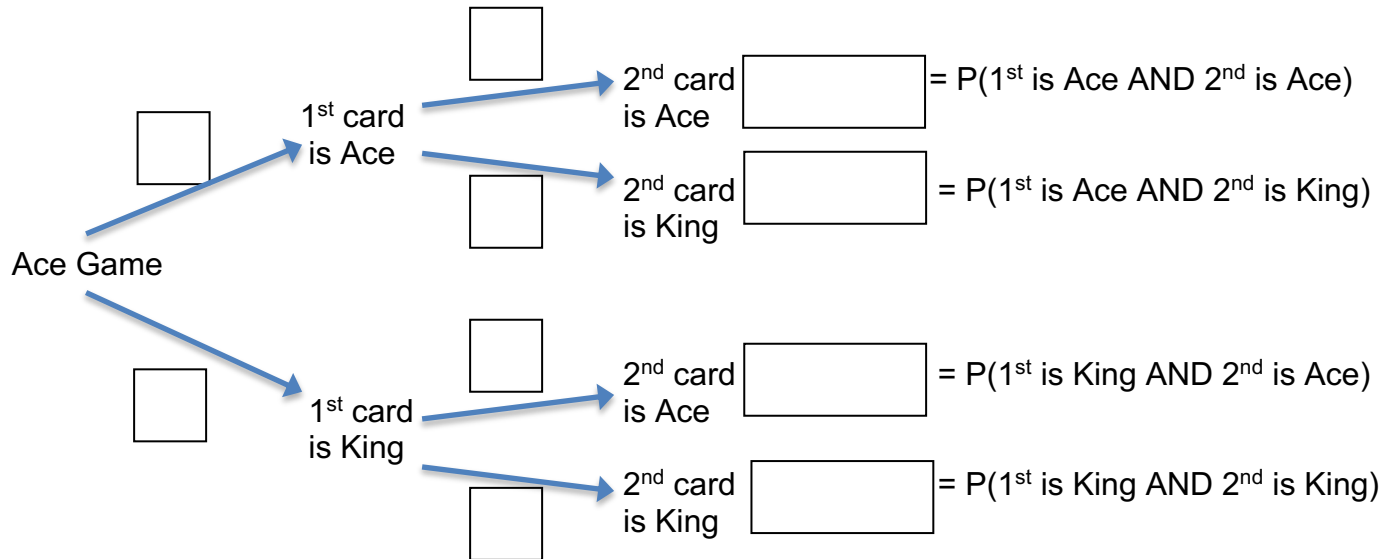
First card										
Second card										
Winner?										

Based on your 10 games, what is the probability of winning this game? _____

2. Go to the front of room to record the number of wins in 10 games.

Based on the whole class data, what is the probability of winning this game? _____

3. Let's try to use a Tree Diagram to calculate the theoretical probability. Fill in the blank boxes with the correct probabilities.



4. Find the theoretical probability of winning the game. _____

5. What is the probability that the 1st card was a King, given that the person won the game?

