

Quiz 12 : Probability

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This quiz does not count towards your grade. It exists to simply gauge your understanding. Treat this as though it were a portion of your midterm or final exam.

1 Probability and Conditional Probability

Consider a 5-card hand from a standard deck of 52 cards.

1. What is the probability that we have exactly 1 ace?
2. What is the probability that we have exactly 3 clubs? (Hint: Use counting)
3. Given we have three clubs, what is the probability of an ace of clubs?
4. What is the probability that we have 3 clubs or 1 ace? (Not XOR, Hint: Think about inclusion-exclusion.)