Quiz 20

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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. In this quiz, we will walk through various sorts of independence.

1 Determining Independence

1. Let X and Y be the number of pips rolled for two different dice. What is $E[XY]$? $P[X = 1, Y = 3]$?

2. Compute $var(X)$, where X is the number of heads after n flips of a biased coin with heads-probability p.