Bonus Problems, Homework 2, Math 20

July 10, 2009

The following problem is for extra credit.

Problem 1 In a game of Domino there are 28 tiles, each tile being a pair of numbers (a, b) where a and b are integers between 0 and 6. Examples are $(0, 5)$ and $(4, 4)$. A usual game consists of four players, each starting with 7 tiles. A Miss hand is when among the 7 tiles there is a number missing. A No-Miss Hand would be having a hand that is not a Miss hand. Calculate the probability that all four players have a No-Miss Hand.