MATH 407 FALL 2009

QUIZ 1

1. a) How many hands of 5-card stud are possible? (Note that 5-card stud is a game in which 5 cards are dealt from a deck of 52 distinct cards, the order does not matter.)

1. b) How many hands of bridge are possible? (Bridge is a game where 13 cards are dealt from a deck of 52 distinct cards, the order does not matter.)

2. There are 50 balls and 5 cells. In cell 1, there must be exactly 2 balls, in cell 2 at least 5, in cell 3 exactly 3, in cell 4 at least 10, and in cell 5 at least 1. How many possible ways are there to distribute the balls in this fashion?