

MA 110-06
§3.2 - 3.4

Quiz #4

score

Name: _____

18 October 2001

1. Two dice are rolled. Find the probability that at least one of the dice is larger than 4. (6 points)

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2. A couple plans to have 4 children. Find the probability that a majority of their children will be girls. Assume that the probability of having either a boy or a girl is $\frac{1}{2}$. (7 points)

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3. An enterprising Finite Math instructor generously offers to hold a lottery in her class in which the winner, if there is one, will receive an automatic A together with a commemorative MA 110 deck of cards. The lottery is structured so that students choose 3 numbers in the range of 1 to 15. Find the probability that a given student will win. Also, find the probability that a given student will choose two of the correct three numbers (and get *only* the commemorative cards). (7 points)