

MA 110-91  
§3.2 – 3.5

## Quiz #5

score

Name: \_\_\_\_\_

14 October 2000

1. If two standard dice are rolled, find the probability that the sum is 6. Express your answer as a decimal. (6 points)

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2. From a standard 52-card deck, find the probability of being dealt four of a kind in a 5-card hand. Express your answer as a decimal. (7 points)

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3. You and a few of your closest math friends make up a game. Your opponent pays you \$1 to play. Then the opponent rolls two dice. If the sum is 6 or less, you pay them nothing. If the sum is between 7 and 11 (inclusive), you pay them \$1.25; if 12 you pay them \$5.00. What are the expected winnings per game for your opponent? (7 points)