

MA 110-07  
§3.4-3.6

## Quiz #6

score

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

27 March 2001

1. There are 6 red marbles and 8 green marbles in a jar. Three marbles are selected at random. What is the probability that all three of the selected marbles are red? *(7 points)*

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2. You and a one 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)*

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3. If two cards are dealt from a standard 52-card deck of cards, find the probability that the second card is a heart given that the first card is a heart. *(6 points)*