

Name: _____

Independent Events

- 1) Three bolts and three nuts are in a box. Two parts are chosen at random. Find the probability that one is bolt and one is a nut.
- 2) A box contains two white socks, two blue socks, and two red socks. Two socks are drawn at random. Find the probability they are a match (same color).
- 3) Of 10 girls in a class, 3 have blue eyes. Two of the girls are chosen at random. Find the probability that:
 - 1) Both have blue eyes
 - 2) At least one has blue eyes
 - 3) Neither has blue eyes
 - 4) Exactly one has blue eyes
- 4) A pair of fair die is tossed. If the numbers appearing are different, find the probability that
 - 1) The sum is even
 - 2) The sum exceeds nine
- 5) Box A contains 6 red marbles and 2 blue marbles, and Box B contains 2 red and 4 blue. Two marbles are drawn from each box. Find the probability p that:
 - 1) Both marbles are red
 - 2) One is red and one is blue