1. A student downloaded five music files to his portable MP3 player. In how many different orders can the songs be played?
2. A student must read three of seven books for an English class. How many different selections can the student make?
3. A football league consists of six teams. How many games must be scheduled if each team must play each other team twice?
4. How many different letter arrangements are possible using all the letters of the word calculus?
5. If six black, five red, four white, and two green disks are to be arranged in a row, what is the number of possible color arrangements?
6. Find the probability that the coins will match if (a) two boys each toss a coin (b) three boys each toss a coin
7. Fifteen people decide to form a bowling league. In how many ways can the 15 people be divided into three teams of five people each?
8. If 1000 tickets are sold for a raffle, find the probability of winning if an individual purchases

(a)1 ticket (b) 10 tickets (c) 50 ticket

1. A quiz consists of six true-or-false questions: at least four correct answers are required for a passing grade. If a student guesses at each answer, what is the probability of (a) passing (b) failing
2. The “get-out-the-vote” committee of a political action group has 12 members. In how many ways can the 12 members be divided into groups of two people?