

Assignment/Homework/Tutorial A7

Q1. A store sells clothes for women. It has 3 kinds of jackets, 7 kinds of shirts, and 5 kinds of pants. Find the number of ways a person can buy: (a) one of the items; (b) one of each of the three kinds of clothes.

Q2. Find the number of automobile license plates where: (a) Each plate contains 2 different letters followed by 3 different digits. (b) The first digit cannot be 0.

Q3. A restaurant has 6 different desserts. Find the number of ways a customer can choose: (a) 1 dessert; (b) 2 of the desserts; (c) 3 of the desserts.

Q4. Suppose 32 students are in an art class A and 24 students are in a biology class B and suppose 10 students are in both classes. Find the number of students who are: (a) in class A or in class B; (b) only in class A; (c) only in class B.

Q5. Find the minimum number of students needed to guarantee that 4 of them were born: (a) on the same day of the week; (b) in the same month.