

1. Pat is to select six cookies from a tray containing only chocolate chip, oatmeal, and peanut butter cookies. There are at least six of each of these three kinds of cookies on the tray. How many different assortments of six cookies can be selected?
(A) 22 (B) 25 (C) 27 (D) 28 (E) 729
2. Nebraska, the home of the AMC, changed its license plate scheme. Each old license plate consisted of a letter followed by four digits. Each new license plate consists of three letters followed by three digits. By how many times is the number of possible license plates increased?
(A) $\frac{26}{10}$ (B) $\frac{26^2}{10^2}$ (C) $\frac{26^2}{10}$ (D) $\frac{26^3}{10^3}$ (E) $\frac{26^3}{10^2}$
3. A restaurant offers three desserts, and exactly twice as many appetizers as main courses. A dinner consists of an appetizer, a main course, and a dessert. What is the least number of main courses that the restaurant should offer so that a customer could have a different dinner each night in the year 2003, which is not a leap year?
(A) 4 (B) 5 (C) 6 (D) 7 (E) 8
4. How many distinct four-digit numbers can be formed by rearranging the four digits in 2004?
(A) 4 (B) 6 (C) 16 (D) 24 (E) 81
5. Ms. Hamilton's eighth-grade class wants to participate in the annual three-person-team basketball tournament. Lance, Sally, Joy and Fred are chosen for the team. In how many ways can three starters be chosen?
(A) 2 (B) 4 (C) 6 (D) 8 (E) 10
6. Henry's Hamburger Heaven offers its hamburgers with the following condiments: ketchup, mustard, mayonnaise, tomato, lettuce, pickles, cheese, and onions. A customer can choose one, two, or three meat patties, and any collection of condiments. How many different kinds of hamburgers can be ordered?
(A) 24 (B) 256 (C) 768 (D) 40,320 (E) 120,960
7. The Little Twelve Basketball Conference has two divisions, with six teams in each division. Each team plays each of the other teams in its own division twice and every team in the other division once. How many conference games are scheduled?
(A) 80 (B) 96 (C) 100 (D) 108 (E) 192