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Questions Questions 1-8
A bakery makes nine kinds of cookies. Of these nine, three kinds are fruit cookies G, H, and J. three kinds are nut cookies K, L, and O. and three kinds are plain cookies X, Y, and Z. Each day of the week, Monday through Sunday, the bakery will feature a special price on exactly three different kinds of cookies. The three featured cookies will be selected according to the following rules:
Each day at least one fruit cookie must be featured, and each day at least one nut cookie must be featured. On any day on which cookie J is featured, cookie L cannot be featured. On any day on which cookie K is featured, cookie Y must also be featured. No kind of cookie can be featured more than three times in a week.
1. Which of the following lists three cookies that can be featured together?
(A) G, L, Z (B) H, K, X (C) J, L, Y (D) J, O, Z (E) K, O, Y
2. On a day on which both cookie L and cookie Z are featured, which of the following can be the third kind of cookie featured?
(A) H (B) J (C) O (D) X (E) Y
3. A partial schedule of featured cookies is shown below.
Monday Tuesday Wednesday Thursday Friday L H O G Z
According to this schedule, which of the following is a day on which cookie X CANNOT be one of the featured cookies?
(A) Monday (B) Tuesday (C) Wednesday (D) Thursday (E) Friday
4. If cookie J is featured on Friday, Saturday, and Sunday. if cookie K is featured on Monday, Tuesday, and Wednesday, and if cookie G is featured only

on Thursday, then cookie L can be featured on (A) Monday only (B) Thursday only (C) Monday, Tuesday, and Wednesday only (D) Friday, Saturday, and Sunday only (E) any two of the first four days of the week⁵. If each kind of nut cookie is featured three times in one week, what is the maximum number of days on which plain cookies can be featured during that week?(A) Three (B) Four (C) Five (D) Six (E) Seven⁶. If cookie H and cookie Y are each featured on Monday, Tuesday, and Wednesday, and if cookie G and cookie X are each featured on Thursday, Friday and Saturday, then the cookies featured on Sunday must include both (A) J and K (B) J and L (C) J and O (D) K and L (E) K and Z ⁷. If exactly seven kinds of cookies are featured during one week, which of the following must be true about that week?(A) X is the only kind of plain cookie that is featured (B) Y is the only kind of plain cookie that is featured (C) Z is the only kind of plain cookie that is featured. (D) On at least one day, both cookie G and cookie Z are featured. (E) On at least one day, both cookie J and cookie X are featured. ⁸. If cookie X is featured exactly twice and cookie Z is featured exactly three times in one week, which of the following must be true?(A) Cookie G is featured exactly three times during the week. (B) Cookie J is featured at most twice during the week. (C) Cookie K is featured at most twice during the week. (D) Cookie L is featured at most twice during the week. (E) Cookie Y is featured exactly twice during the week. ⁹. In recent years, there has been a dramatic decline in the population of the shrike, a predatory bird that inhabits flat land, such as farms and pastures. Some ornithologists hypothesize that this decline is due to

the introduction of new, more effective pesticides to control the insect species on which shrikes prey. The answer to which of the following questions is NOT relevant to evaluating the ornithologists

' hypothesis? (A) Was there a decline in the shrike population before the new pesticides were first used? (B) Have shrike populations declined significantly in those habitats where the new pesticides have not been used? (C) Have the new pesticides more significantly reduced the population of insect species on which shrikes prey than did the pesticides previously used? (D) Are insects that have consumed the new pesticides more toxic to the shrikes that eat those insects than were insects that consumed the less effective pesticides? (E) Are the new pesticides considered by most people to be less harmful to the environment than the old pesticides were considered to be?

10. Census data for Prenland show that unmarried Prenlandic men in their thirties outnumber unmarried Prenlandic women in that age group by about ten to one. Most of these men do wish to marry. Clearly, however, unless many of them marry women who are not Prenlandic, all but a minority will remain unmarried. The argument makes which of the following assumptions? (A) Emigration from Prenland is more common among women than among men. (B) A greater proportion of Prenlandic women in their thirties than of Prenlandic men of the same age would prefer to remain unmarried. (C) It is unlikely that many of these unmarried Prenlandic men will marry women more than a few years older than themselves. (D) Prenland has a high rate of divorce. (E) Most of the unmarried Prenlandic men are unwilling to marry

women who are not Prenlandic. 11. Certain extremely harmful bacteria found only in sewage are difficult to detect directly. Testing for *E. coli*, an easily detected and less harmful type of bacteria, in ocean water would be a reliable way of determining whether or not these more harmful bacteria are present, since ocean water contains *E. coli* only if the water is contaminated with sewage that contains the harmful bacteria. Which of the following, if true, most seriously weakens the argument? (A) There are many different strains of the *E. coli* bacteria, and only some of these strains are harmful. (B) Some types of bacteria found in sewage are neither disease-causing nor difficult to detect directly. (C) Some of the types of bacteria found in sewage along with *E. coli* are not harmful to people unless the bacteria are ingested in large quantities. (D) *E. coli* dies out much more quickly than some of the more harmful bacteria found in sewage and then can no longer be easily detected. (E) Some of the types of bacteria found in sewage along with *E. coli* reproduce at a slower rate than *E. coli*.

Questions 12-17

A bank has exactly four cashier windows, arranged in a row and numbered consecutively 1 through 4 from one end of the row to the other. The bank has exactly six cashiers: two supervisors (Joan and Karim), and four trainees (Lorraine, Mark, Nora, and Patrick). Throughout a particular peak-hour period, the stationing of cashiers at windows is restricted as follows: There must be exactly one cashier at each window. The cashier at window 2 must be a supervisor. Lorraine must be at a window but cannot be at window 3. If Mark is at one of the windows, Joan must be at a window immediately adjacent to it. The

cashiers at the windows must include either Nora or Patrick, but they cannot include both Nora and Patrick.

12. Which of the following lists the cashiers who can be stationed at windows 1 through 4 during this period?

1 2 3 4 (A) Joan Karim Mark Lorraine (B) Joan Karim Nora Lorraine (C) Karim Nora Joan Lorraine (D) Mark Joan Lorraine Patrick (E) Patrick Joan Nora Lorraine

13. Which of the following must be true about the stationing of the cashiers during this period?

(A) Joan is at window 1 or at window 2. (B) Karim is at window 2 or at window 4. (C) Lorraine is at window 1 or window 4. (D) Nora is at window 1 or at window 3. (E) Patrick is at window 3 or at window 4.

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