



# GMAT

## Quant Section Test [PERMUTATION AND COMBINATION] - Questions

1. At a movie premier, there are total 10 guests; 6 men and 4 women. In how many ways women can be seated in a row so that no two women are besides each other?
  - A. 17,280
  - B. 51,840
  - C. 100,800
  - D. 300,500
  - E. 604,800
  
2. Michael and Mary are getting married. The extended family wants to have its picture taken, but Mary's mother doesn't want to stand next to Michael's father. Find the number of ways does the photographer have to arrange the 10 members of family in a row for the photograph?
  - A.  $9! * 8$
  - B.  $10! / 2!$
  - C.  $10!$
  - D.  $8! * 9$
  - E.  $10! * 2$
  
3. Alexander received a gift of six different countries' flags, including Italy and Russia. If he only has space in his study room to display four flags in a row, find the number of possible arrangements if he cannot display the Italy and Russia flags at the same time?
  - A. 360
  - B. 345
  - C. 216
  - D. 144
  - E. 140
  
4. How many different 3-person teams can be formed from a group of 'a' individuals?
  - (1) If there had been 'a + 4' individuals in the group, exactly 210 different 4-person teams could have been formed.
  - (2) If there had been 'a + 2' individuals in the group, exactly 45 different 2-person teams could have been formed.
  - A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
  - B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
  - C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
  - D. Each statement alone is sufficient to answer the question.
  - E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

5. From a group consisting of Salsa dancers from Latin America, Columbia and United States including at least three Salsa dancers from each country, how many same country pairs of Salsa dancers can be selected?
- (1) The group consists of 11 Salsa dancers.  
(2) The group consists of an equal number of Latin America and Columbia Salsa dancers.
- A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.  
B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.  
C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.  
D. Each statement alone is sufficient to answer the question.  
E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

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