

A scientific committee is to be formed from 6 Indians and 8 foreigners, which includes at least 2 Indians and double the number of foreigners as Indians. Then the number of ways, the committee can be formed, is :

- a. 1050
- b. 575
- c. 560
- d. 1625

Answer: minimum no. of indians=2

Maximum no. of indians=4(max no. of foreigner =8)

Combinations: 2Indians & 4foreigners= ${}^6C_2 \cdot {}^8C_4 = 15 \cdot 70 = 1050$

3Indians & 6foreigners= ${}^6C_3 \cdot {}^8C_6 = 20 \cdot 28 = 560$

4Indians & 8foreigners= ${}^6C_4 \cdot {}^8C_8 = 15 \cdot 1 = 15$

TOTAL=1050+560+15=1625