



#07 SA Permutations & Combinations

Total points **5/5** ?

✓ There are 13 cricket players out of which 4 are bowlers. In how many ways a team of 11 be selected from them so as to include at least 2 bowlers? * 2/2

78 ✓

72

42

✓ The number of ways in which a host lady can invite for a party of 8 out of 12 people, 2/2 of whom 2 do not want to attend the party together is *

$$2 \times {}^{11}C_7 + {}^{10}C_8$$

Option 1

$${}^{10}C_8 + {}^{11}C_7$$

Option 2

$${}^{12}C_8 - {}^{10}C_6$$

Option 3



Feedback

The total number of ways in which 8 persons can be invited out of 12 people without restriction = $C(12,8)$. The total number of ways in which the two particular persons will always be included = $C(10,6)$. Hence, the required number of ways = $C(12,8) - C(10,6)$

✓ A committee of 7 is to be formed from 9 boys and 4 girls. In how many ways can this be done when the committee consists of exactly three girls? * 1/1

504

588

1630



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