Probability Questions Overview

Probability Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Probability Questions.

Question

Given 3 different red dyes, 4 different blue dyes, and 5 different green dyes, how many combinations of dyes can be made taking atleast one green and one blue dye?

Difficulty : Moderate

Average Time : 31 Seconds

Options :

1. 2720
2. 3250
3. 31
4. 4230
5. 3720

Solution

The correct answer is **Option 5** i.e. **3720**

Concept	Understanding	Application	Fair Calculation	Rough Calculation

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Permutation and combination	Atleast 1 green dye can be selected out of 5 green dyes in (2^5 - 1) i.e. 31 ways Similarly, atleast one blue dye can be selected out of 4 in (2^4 - 1) i.e. 15 ways Similarly, atleast 1 red or no red dye can be selected out of 3 red dyes in 2^3 i.e. 8 ways	The required number of ways	31 × 15 × 8 = 3720