

Permutations and Combinations Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. If a task A can be done in m ways and the task B can be done in n ways, then both the tasks can be done in:

- a. $m + n$
- b. $m \times n$
- c. $m : n$
- d. None of these

2. The arrangement of the choice matters in:

- a. Combinations
- b. Permutations
- c. Both a and b
- d. None of these

3. $\binom{n}{n-1} =$ _____.

- a. 1
- b. $n!$
- c. n
- d. 0

4. ${}^n C_r =$ _____

- a. ${}^n P_r$
- b. $n - {}^n C_r$
- c. ${}^n C_n$
- d. None of these

Part B Instructions: Answer the question below.

5. In how many ways can these balls be arranged in the box shown below?

