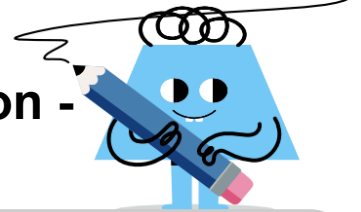




## Probability Permutation or Combination - Notation to Scenario



1

$4P_3$

Select the situation that matches this notation.

A From 4 numbers, 3 lottery numbers are drawn. How many possible draws are there?

B From a group of 4 students, 3 distinct officer positions (such as president and vice-president) are filled. How many

2

$6P_2$

Select the situation that matches this notation.

A From 6 members, 2 delegates are selected to attend a conference. How many selections are possible?

B From 6 employees, 2 are each assigned to a different office. How many assignments are possible?

3

$4C_2$

Select the situation that matches this notation.

A From a class of 4 students, 2 are chosen and lined up left-to-right for a class photo. How many different line-ups are possible?

B From a roster of 4 players, a group of 2 starting players is chosen. How many groups are possible?

4

$4P_2$

Select the situation that matches this notation.

A From 4 candidates, 2 judges are selected for a science fair. How many selections are possible?

B From 4 paintings, 2 are hung in a row along a gallery wall. How many arrangements are possible?

5

$5C_3$

Select the situation that matches this notation.

A From 5 exam questions, 3 are selected to answer. How many selections are possible?

B From 5 runners, the finishing positions of the top 3 are recorded. How many finishing orders are possible?

6

$3C_2$

Select the situation that matches this notation.

A From 3 available courses, 2 elective courses are chosen. How many choices are possible?

B From 3 contestants, distinct first, second, and third prizes are awarded to 2 winners. How many ways are there?

7

$6P_4$

Select the situation that matches this notation.

A From 6 exam questions, 4 are selected to answer. How many selections are possible?

B From 6 paintings, 4 are hung in a row along a gallery wall. How many arrangements are possible?

8

$3P_2$

Select the situation that matches this notation.

A In a race with 3 runners, distinct medals are awarded to the top 2 finishers. How many ways can the medals be awarded?

B From 3 applicants, 2 scholarship recipients are selected. How many selections are possible?