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# ASSIGNMENT

# PERMUTATION

NAME: \_\_\_\_\_

Email ID \_\_\_\_\_

LOCATION \_\_\_\_\_

SCHOOL     COLLEGE     COMPETITIVE EXAM \_\_\_\_\_

Q1) Evaluate the expression

- i)  ${}^{10}P_7$
- ii)  ${}^7P_4$

Q2) In how many ways, we can arrange all the letters of each word?

- i) PROVINCE
- ii) CANADA

Q3) Solve for the variable

$${}^nP_3 = 60$$

Q4) How many different ways are there to place four different coloured tiles in a row? Assume the tiles are red, blue, green and yellow.

Q5) How many different ways are there to place three different coloured tiles chosen from a set of five different coloured tiles in a row? Assume the five tiles are red, blue, green, yellow and orange.

Q6) In a school soccer league with seven teams, in how many ways can they finish in the position's "winner", "runner-up" and "third place?"

Q7) It is required to seat 4 Women and 5 Men in a row so that the women occupy the even places. How many such arrangements are possible?

Q8) There are 3 candidates for a classical, 5 for a mathematical, and 4 for natural science scholarship. In how many ways can these scholarships be awarded (one scholarship per subject)

- a) 60
- b) 30
- c) 15
- d) 20

Q9) A room has 6 doors. In how many ways can a person enter the room through one door and come out through a different?

Q10) In how many ways can 3 prizes be distributed among 4 boys, when

- i) No boy gets more than one prize?
- ii) A boy may get any number of prizes?
- iii) No boy gets all the prizes?