

## Permutations and Combinations Worksheet

I. Evaluate the following:

1) $5!$ 120	2) $\frac{10!}{8!}$ 90	3) $\frac{7!}{6!}$ 84
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## II. Permutations

4) Evaluate: a)  ${}_3P_2$  840      b)  ${}_{10}P_2$  90      c)  ${}_7P_2$  720

5) In how many different ways can 7 floats line up for the homecoming parade.

$$7! \text{ or } {}_7P_7 = 5040$$

6) In how many ways can 4 of 7 different kinds of bushes be planted along a walkway?

$${}_7P_4 = 840$$

7) Four processes are involved in assembling a certain product and they can be performed in any order. The management wants to test each order to determine which is the least time consuming. How many different orders will have to be tested?

$$4! \text{ or } {}_4P_4 = 24$$

8) A club with 10 members is to choose 3 officers- president, vice-president and secretary. If each office is to be held by 1 person and no person can hold more than one office, how many ways can these offices be filled?

$${}_{10}P_3 = 720$$

9) A corporation has 10 members on its board of directors. In how many different ways can it elect a president, vice-president, secretary and treasurer?

$${}_{10}P_4 = 5040$$

10) For a segment of a radio show, a disc jockey can play 7 songs. If there are 13 songs to choose from, in how many ways can this segment be arranged?

$${}_{13}P_7 = 8648640$$

11) Suppose you are asked to list, in order of preference, the three best movies you have seen this year. If you saw 20 movies, in how many ways can the 3 best be chosen and ranked?

$${}_{20}P_3 = 6840$$

12) How many arrangements of 4 letters from the word COMBINE if no letter is used more than once?

$$7! = 5040$$

# Mathematical Palette Answer Key

**Michael Rajnik**



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