

# Permutations and Combinations Worksheet

## Answer Key

### *As a Matter of Factorial...*

- How many ways are there to order 5 books on a shelf?  
 $5! = 120$
- Simplify  ${}_{10}P_6$ .  
 $\frac{10!}{4!} = 5040$
- How many ways can we order 6 computers if we have only space for 3?  
 $\frac{6!}{3!} = 120$
- How many ways can we order 8 swimsuits in 4 lockers?  
 $\frac{8!}{4!} = 1680$
- How many ways can we choose 4 t-shirts from 6 t-shirts with repetitions allowed?  
 $6^4 = 1296$
- How many 10-digit phone numbers are there?  
 $10^{10}$
- How many playlists can we make with 38 songs if we can repeat 5 songs in each playlist?  
 ${}_{38}P_{33} = 38 \times 37 \times 36 \times 35 \times 34$
- How many combinations of playlists can we make with 10 songs when there are 5 songs in each and order does not matter?  
 ${}_{10}C_5 = \frac{10!}{5!5!}$
- A drawer contains 6 white t-shirts and 2 red ones. If 2 shirts are drawn at random, what is the probability of getting 2 white shirts?  
 $\frac{{}_6C_2}{{}_8C_2} = \frac{15}{28}$
- There are 10 pink, 15 purple, and 5 green jelly beans in a jar. If two jelly beans are drawn at random (without replacement) what is the probability that both are green?  
 $\frac{{}_5C_2}{{}_{30}C_2} = \frac{2}{87}$

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# Lesson 11 1 Permutations And Combinations Answers

**Karin Nielsen-Saines**



## **Lesson 11 1 Permutations And Combinations Answers:**

## Whispering the Strategies of Language: An Psychological Journey through **Lesson 11 1 Permutations And Combinations Answers**

In a digitally-driven earth where displays reign great and quick communication drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within words frequently get unheard. Yet, situated within the pages of **Lesson 11 1 Permutations And Combinations Answers** a charming literary prize blinking with raw thoughts, lies a fantastic journey waiting to be undertaken. Published by a skilled wordsmith, this enchanting opus invites visitors on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the very fabric of each and every word. Within the psychological depths of the poignant review, we shall embark upon a genuine exploration of the book's primary themes, dissect their fascinating publishing style, and succumb to the powerful resonance it evokes strong within the recesses of readers' hearts.

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