

Permutation or Combination?

Directions: Recall that a **permutation** is an arrangement with a specific order, while a **combination** is a group with no specific order. Determine whether the example represents a permutation or combination, then solve.

	Example	P or C?	Answer
1	How many ways can 4 candy bars be chosen from a store that sells 30 candy bars?	C	${}_{30}C_4 = \frac{30!}{4! \cdot 26!} = \boxed{27,405}$
2	How many ways can 13 students line up for lunch?	P	${}_{13}P_{13} = 13! = \boxed{6,227,020,800}$
3	How many ways can you make a 3-letter arrangements out of the letters in the word TRAPEZOID .	P	${}_{9}P_3 = \frac{9!}{6!} = \boxed{504}$
4	How many ways can you choose 2 books from a shelf of 40 books?	C	${}_{40}C_2 = \frac{40!}{2! \cdot 38!} = \boxed{780}$
5	How many ways can 12 swimmers finish in first, second, and third place?	P	${}_{12}P_3 = \frac{12!}{9!} = \boxed{1320}$
6	How many ways can Mrs. Sullivan choose two students from 27 to help put away calculators at the end of class?	C	${}_{27}C_2 = \frac{27!}{2! \cdot 25!} = \boxed{351}$
7	You have enough tickets to play 6 different games at the amusement park. If there are 14 games, how many ways can you choose six?	C	${}_{14}C_6 = \frac{14!}{6! \cdot 8!} = \boxed{3003}$
8	How many different ways can 9 trumpet players in the marching band line up?	P	${}_{9}P_9 = 9! = \boxed{362880}$
9	Seven students worked together on a project. How many ways can their teacher choose four to present the project?	C	${}_{7}C_4 = \frac{7!}{4! \cdot 3!} = \boxed{35}$
10	There are 18 offensive players on the hockey team. How many ways can the coach choose a left wing, center, and right wing to start the game?	P	${}_{18}P_3 = \frac{18!}{15!} = \boxed{4896}$
11	How many different 12-letter arrangements can be made using the letters in the word INDIANAPOLIS ?	P	$\frac{12!}{2! \cdot 2! \cdot 3!} = \boxed{19,958,400}$
12	There are 26 gold fish in the tank at the store. How many ways can Ben choose five?	C	${}_{26}C_5 = \frac{26!}{5! \cdot 21!} = \boxed{65,780}$

Permutations And Combinations Examples With Answers

Vincent N. Campbell



Permutations And Combinations Examples With Answers:

Permutations And Combinations Examples With Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Permutations And Combinations Examples With Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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