

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

R Barnett



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