Answer on Question #49068 – Math – Combinatorics | Number Theory

Why order does not matter in combination?

Why does order matter in permutation?? please explain with examples

Solution.

Sometimes order matters. For example, we want to choose 3 digits from 10 possible and form a 3-digit number.

In this case $235 \neq 253 \neq 352 \neq 325 \neq 523 \neq 532$.

Thus, to calculate the number of possible combinations we should use the formula for permutation.

Sometimes order doesn't matters. For example, we want to choose 3 men from the set of 10 persons. In this case the order in which we choose them does not matter and we should use the formula for combination.