

Parent Guide to the

Permutations and Combinations in Probability

Today's Standard

HSS.CP.B9 - (+) Use permutations and combinations to compute probabilities of compound events and solve problems.

Real-World Applications for this Standard

Calculating the probability of winning a lottery; Determining the number of ways to arrange books on a shelf; Predicting the outcomes in card games; Analyzing possible seating arrangements in a theater; Forecasting possible team formations in sports

Today I Learned

Today, we learned about permutations and combinations in probability. These are methods to calculate the chances of different outcomes happening. We use permutations when the order matters and combinations when the order doesn't matter.

Common Stumbling Blocks

Sometimes, students mix up permutations and combinations, thinking they are the same. But they are different! Another tricky part is thinking the total outcomes are always just multiplied together, which isn't always right.

Quiz Me

- What is a permutation?
- What is a combination?
- When do we use permutations?
- When do we use combinations?
- Why is it important to know if order matters?

Help Me

Permutations and combinations help us figure out how likely different things are to happen. For example, they can help us know the chances of winning a game or arranging seats in different ways. It's like solving puzzles with numbers!