Understanding Independent Events

Today's Standard

HSS.CP.A2 - Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.

Real-World Applications for this Standard

Predicting weather events; Determining the likelihood of genetic traits; Analyzing outcomes in games of chance; Evaluating risk in financial investments; Understanding reliability in engineering systems

Today I Learned

Today, we learned about independent events in probability. If two events are independent, it means that one event happening doesn't change the chance of the other event happening.

Common Stumbling Blocks

Sometimes, students think that if two events happen together a lot, they must be connected. This isn't true. Another mistake is thinking that independent events can't happen together, but they can.

Quiz Me

- What is an independent event?
- Can two independent events happen together?
- What happens to the chance of one event if another independent event happens?
- How do you know if two events are independent?
- Can you give an example of independent events?

Help Me

Independent events are things that happen without affecting each other. For example, flipping a coin and rolling a die are independent events. The result of the coin flip doesn't change the result of the die roll.