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.

Cues	Notes
What are independent events? How to determine if events are independent? Common misconceptions about independent events	Independent events: Two events are independent if the occurrence of one does not affect the occurrence of the other. Determining independence: If the probability of A and B occurring together is the product of their individual probabilities, then A and B are independent. Misconceptions: 1) Frequent co-occurrence implies dependence. 2) Independent events cannot occur together.

Summary

Independent events occur without affecting each other's probabilities. If P(A and B) = P(A) * P(B), then A and B are independent. Common misconceptions include mistaking frequent co-occurrence for dependence and believing independent events cannot occur together.