

Cornell Motes

Addition Rule in Probability

Today's Standard

HSS.CP.B7 - Apply the Addition Rule, P(A or B) = P(A) + P(B) - P(A and B), and interpret the answer in terms of the model.

Cues	Notes
Addition Rule	The Addition Rule is used to find the probability of either event A or event B occurring.
P(A or B)	
Overlap	P(A or B) = P(A) + P(B) - P(A and B)
Overlap	The overlap (intersection) must be subtracted to avoid double-counting.
Intersection	Mutually exclusive events do not overlap, so P(A and B) is zero.
Mutually Exclusive	ividitioning exclusive events do not over lap, so F (A and b) is zero.

Summary

The Addition Rule helps calculate the probability of either of two events occurring by accounting for their overlap. It is essential for understanding non-mutually exclusive events.