Associativity:

An(Bnc) = (ANB)nc

AU(BUC) = (AUB)UC

Indepent counts

Commitativity:

P(A, na, -- a) = P(A). P(A). P(A). P(A). P(An) ANIS = BNA AUB = BUA

Distributivity An(Bu) = (ANB) u (Anc) AU(BOO) = (AUB)O (AUC)

Demonge's low:

(AUB) = A NB (ANB) = ACURC Disjoint events

ANB = 50}

- 1 y (AINA2NANAN . - - Am) = { 6} Portition sets

{AIUAZUA3 - - - An} = { 2}

John Brobability Condition

Num H chim(e) of thatever happening Such fun Shoeld Satisfy Axioms Parts Total J Non - 12 P(A) = 0

2) Normalization P(2) =1

3) Endinit Additivity

If events are disjoint P(A, UAzUA, -- Am) = EP(A;)

) equely 1: tolo 0/c = No Possible OL

2) Robbine Jengung Brok = Total 9/28 A Fresh

Me time Experient Conditional Prob PAIB) - PHANB)

Multiplication Rule P(Ans) = P(Als)-P(B) P(B)A) = P(B)A). P(A)

P(ANB) = P(BNA)

P(AB)PBI-PONA)-PA)

Chair Rule for Babletity

P(Anon) = P(A).P(B/A). P(C/ANB) nd Total Parts theorem

Compute P(B)-having P(B/A) & P(A)

P(B) = P(A). P(B)A)+P(A2)-P(B)

P(A) 7

(A) P(B) A

(B) P(B) A

(C) P(B) A