able 4-5	Type of	ration - period	Formula under Statistical Independence	Formula under Statistical Dependence
nder Statistical	Probability	Symbol	Independent	Sum of the probabilities of the
idependance.	Marginal	P(A)	P(A)	joint events in which A occurs
id Dependence	A Assess		1 A7 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$P(A \mid B) \times P(B)$
	Joint	P(AB)	$P(A) \times P(B)$	$P(B \mid A) \times P(A)$
		or P(BA)	$P(B) \times P(A)$	P(<i>BA</i>)
	Condition		P(B)	P(A)
	Conditional	P(B A)	ist of the Colonial Colorest	P(A <i>B</i>)
	× P(5)	or P(A B)	P(<i>A</i>)	P(B)

Finding the	Elementary Event	Probability of Elementary Event	P(Ace Elementary Event)	P(Ace, Elementary Event)*
Marginal Probability of Getting an Ace-	Type 1	0.5	0.4	$0.4 \times 0.5 = 0.20$
	Type 2	0.5	0.7	$0.7 \times 0.5 = 0.35$ P(ace) = 0.55

^{*}A comma is used to separate joint events. We can join individual letters to indicate joint events without confusion (AB, for