Jacobsvokelen

Sport 2 Gestions Deliverables with People, Deur Render? Plshe's a witch) = .75 P(Not recent a letto) slow a with) = .03 P (Not record a Left / shels ret a wisch) = . 99 P (Sle's a witch) Not recory a later)? P(A)B) = P(A).P(B)A) P(AIB)=(.75..03) = (.08333 P(B)? P(B) = P(B/A)P(A) + P(B/A)P(-A) (.03)(.75) (.99)(.25) ·0225 x 20075 = .27

	Mocolate Frigs.
	X = Number of frogs needed to open to get every unique cord
	E[X] = Z E[X:] where X: is number of frogs needed to open to get the ith
	Add expected values $\frac{32}{52} E[x; 3 = \frac{20}{52} \left(\sum_{i=1}^{20} \left(\sum_{i=1}^$
	P(Xi) = N-Vi+1 where n is the upper limit of This is probability of get any igh card
	Geometric distribution means E[x]= p Or each expected value in the total summation.
	So pari = E[X]
	30 + 30 + 30 + 30 + 30
-	E(x) 7 (20 trogs)

1(B)P(A1B)= P(APB) PCB) p(AnB)= Ma.PCE) Hat Publem PlEvill Styllern) P(Styllam / En) P(AIB) = P(A) P(BIA) P(A1B) = 10.1.00 128 7.37 P(B) 25,780 P(Stylen)= P(BIA) PIA + PUBLICA) PAR(A)

Elevator Problem < Hermione Logic: If Hemine is on 13th floor, then she must consider the elevator commy down 2 floors to her (continuous clerator). Housever, if the elevatur was already at 13, it's ambiguous as to which my the clouds was traveling. 2 Plans above her: 14 12 Ploors below her: 14 Disveyord 13th Ploor because of ambiguity Thus, The elevator could've been coming down from error the 15th or 14th Plow and that would be 2/14 total possible floor. Probability that elevator mued down = 2/14

Im while You learn block 15 hotal 14 Pland ball or red P(Ind hall 5 red) = E probabilities of evencose ver

Polyas um 9,10,11 X # red halls murn X=6,7,8 6.375+7.175+8.175 1-6.8 red balls & 7 rod balls Y=# of block balls morn Ey (9) 9.175+10.75+11.375 ECATIO & Plankhall 1.575+

Anthonory ECX] = EXX p(x) Because it is a discrete inform distribution: planyx) = n N = X+(X+)+(x+2)... or 1+2+3+4,..+n I som of nation 1+2+3+4...+(N-2)+(n-1)+n-72.add the n+(n-1)+(n-2)+,,4+?+2+1 I two sequences (1+n) + (1+n) + (1+n) . . . (1+n) + (1+n) + (1+n) in other words n(n+1) but you only want I half of this sequence so n(n+1) 1 3 x = 1 n(n+1) = n+1 EEX] = MI

Birthdy attack 40 students P(No 2 students share to some bornday) (365), (364) If there are 2 streents if there we 3: 365 365 365 so for yo students 365). 364 326 1 strant 2 straint go straint Thus 365! = P(NO. 2 students shory) 365 (365-n)! We n is number of stidents 365 1 - 108768 365 40 (325) 80