

	- 11
portion	74
Section	1.

required to be tall, However, Not all the people so over 6ft in height would like to be a basketball player.

50. a. the probability is 0.05

b. the probability is 0.07+0.05 = 0.12

C. the probability for the next shirt short-sleeved shirt is:

0.04+0.02+0.05+0.08+0.07+0.12+0.03+0.07+0.08=0.56.

the probability for the long-sleeved is 0.44.

d. Let the event that the next shirt is a print and B be the event

that the next shirt is medium.

PCBIA) = PCAMB)/PCA) = 0.12 = 13

=0.0735 0.8 to.3 = 0.533

7. The probability of or the short is 0.8 to.7 to.12

0.8 to.7 to.12 to.1 to.5 to.7 = 0.44

for the long is 0810.710.12+0.05 to 07 - 0.505.

52. PCAUBIC) = P(AUBINC)

PCO. PCAUBIC) = PC(AUBINC) = P(CANC)U(ANB))

=> PC = PC AUBIC) = PCANC) + PCBNC) - PCANBAC)

=> PLAUBIC) = PCAIC) + PCBIC) - PCANB (c)

63. a.

0.75 81A CIANB 0.2

O.75 81A CIANB 0.2

CIANB 0.2

CIANB 0.2

CIBNA 0.4

CIBNA 0.7

CIBNA 0.3

CIBNA 0.3

C'18'n8 0.7



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b. PCANBAC) = PCCIANB) · PCANB) = PCCIANB) · PCBIA) · PCA
                                                                            - 0.8x0.9x0.75 = 0.54
 C. P(Bnc) = PCAnBnc) + PCAnBnc) =
              = 0.54+0.25×0.8×0.7=0.68
 d. Pcc = PCBBnc) + PCB'nc) = CR'n Bnc) + PC AMBnc) + PCB'nB'nc)
                                                                            = 0.74
                                                                            e. PCAIBnc) =
                                = 0.54/0.68 = 0.79
                      PCBAC)
Section 2.5
                                                                           5
         a. The probability of the the Europe project is not successful as the asian
                                                                           project is not successful is sthere are independent events
             thus P(BIA) = PB',
                                                                           d City
                                                                           O Train
          b. The probability is P=1fcAnBv = 0.82.
                                  PCANBY = 0.1046
                                                                           20
             The probability is p=
        PCA, [A=]= PCA, nA=) =0.44
                                                                           PC Azl Az) = PCAznAz) = 0.25
                                     PCA2 (A3) = P(A2)
                                                                           PCA, (As) = PCA, (As) = 0.118
                                                                           Thus A, and A, are independent to each other
                                                                           0
   80 Pcsystem nork) = 1- (1-0.9)2. [1- (0.9)2
                                                                           = 0.9981
                                                                           -
    87 a. Peallof the next 3 cours pericles inspected pass) = (0.7)3=0.343
                                                                           b. P(\text{at least one pass}) = 1-(0.3)^3 = 0.913
                                                                           P
      c. P cexalty one pass) = $(0.33)(0.7)x3=0.189
      d. P(atmost one pass) = Prexactly one pass)+ Prhext3 vehicles are not pass &
                           = (0.3)3+0.199 = 0.216
      e - P = \frac{(e.7)^3}{0.413} = 0.35
```



## Section 3.1 4. X=0.1.2.3.4.5.6. x= 4 for 401120 X= Sfor 3=1450 X=16for 57461 5. No. the It distribute in infinite possible value and each of the possibility are approach to D. 8 Y=3 (658655) 4=4 [FSSS] 4=5 { FFSSS, SFSSS } 4=6 ; FFFSSS, SSFSSS, SFFSSS, ESFSSS ] 9=7 ( SEX FFFFSSS, FSSFSSS, SFSFSSS, OSFFFSSS, FSFFSSS, FFFFSSS, FFFFSSS, FFFFSSS) 10. a.T=81.2,3.4.5.6.7.8,9010 b. X=0,1.2,3,4,5,6 C. U=0,12.3.4.5.6 0,2-7,1,2. Section 3.2 12 a. The probability for the flight will a ccommodate all ticketed passagers who showup is P = 0.35+0.10+0.12+0.14+0.25 to.17 = 0.83 b. The probability is P=1-0.83= 0.21 C. The probability forthe first position con the randy is 8-05+0.12+0.12+0.14+0.25 =0.66 The probability for the third one is 0.05 to. 10 to. 12 = 0.27. 23. A. P(X=2)=0.39-0-19=0.2 b. PCX73)= 1-0.39=0-6) C. PCZEXE5)= 0.92-0.19=0.73 d. PC2<x45)= 042-0.39=0.53



2٤.	pc (=1) = 1-P	
	PCY=2) = p.(1-P)	
	PCY=3) = P. (1-P)2	
	P(Y=n) = P*(1-P)"	
	P(Y=n) = pa(1-p)	man Mika
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