

	Section 2.1
	2
	$\alpha. A = \{cL,L,L\}, (R,R,R), (S,S,S)\}$
	b. B= ((L,S,R), (L,R,S), (R,L,S), (R,S,L)
	(S.R.L), (S.L,R)]
	c. c= 1 tr. R.R. (R,R,S), (R,R,L), (R,S,R), (R,L,R)
	(S,R,R),(L,R,R)
	d. D= ((R,R,S), (R,R,L), (L,L,S), (L,L,R),
	(S, S, R) (S, S, L)
	CR,S,R), (RL,R), (L,SL), (L,R,L),
	(S, R, S), (S, L, S)
	(S.R.R). (L,R,R). (S,L,L), (R,L,L)
m.	(R, S, S), (L, S, S)
	e. $D' = \{(R,R,R), (L,L,L), (S,S,S), (L,S,R), (L,R,S), (R,L,S)\}$
	(R.S,L), (S,R,L), (S,L,R)}
	cuD=D cnD=c
	4.
	a. 18= (F.F.F.F), (F,F,F,V), (F,F,V,F), (F,F,V,V). (F,F,V,F)
	CF, V, F, V), CF, V, V, F), (F, V, V, V), CV, F, F, F), (V, F, F, V)
NV.	CY, F, V, F), (V, F, V, V), (V, V, F, F), (V, V, F, V) (V, V, V, F),
117	<u, th="" v)="" v,="" }<=""></u,>
	b. Given that the event that exactly three of the selected mortgages
	are fixed rate is B.
	WE TIME TO



B = (F, F, F, V), (F, F, V, F), (F, V, F, F), (V, F, F, F)	
c, Be Given that the event that all four mortgag	jes are of the same type
is event C.	
$C = \{cF, F, F, F, F, CV, V, V, V, V\}$	and Problems
od. Given that the event at most one of four is	a variable-rate is D.
D= (CF, F, F, F), CE, F, E, V), (F, F, V, F), (E	. Y.F.F). (V.F.F.F)
e. CUD = (CF.F.F.F). (F.E.F.V). (F.E.V.F). CF.V.F	E.F.), C.Y.F.F., F.), C.V.V.V.V.)
cnD= (cf,F,F,F)].	
f. Bree = (E.F.F.F), (F.F.EV), (E.F.V.E), (F.V.	F, F), CV, F, F, F), (V. V. V. V)
$Bnc = \Phi$	77
9.	
a. Jungtin	6 4, 4,
A DB	
(AUB) A'UB'	
	V
b. HHHAY	
XXIXIXX (A) (A) (B)	
THE THE TANK OF TH	
(ANB) A'UB'	
a v b da valikur (3 44ve asa valikur dila	
	1.042.7.33



_	Section 2.2.
8 -	12. a. PCAUB) = PCA)+PB) - PCANB) = 0.65
5	b. Let $A^{C}$ be the event that the selected individual has neither of the card $C = PC(AVB)^{1} = 0.35$
	C. Giving that the event the selected Student has viva but not MusterCard
	A
	P. P. A. D. P. D. P. A. D. P. A. D. P. A. D. P. D.
	Por= P(AUB) - PCB) = 0.25
-	= PCAPPCANB) = 0.25
	12
- 1	18. Let the A be the event that at least two bulbs must be selected to
- 6	obtain one that is rated 75w.
1	P(A) = (152) (24.7) - (24.7) - (15 = (1)
	27. a. Let the A be the event that both Anderson and Box will be selected.
<u>.</u>	the outcomes = { (And. Box), (And. Cox), (And. Cra), (And. Fish),
	(BOX, COX), (BOX, Cra) (Box, Fish) (COX, Cra), (COX, Fish)
<b>j</b> _	c Cru, Fish)
1	P(A) = Nontcomes) = 10
<u> </u>	b. Let B be the event that at least one of two member whose name begin with "c".
<u>.</u>	$P(B) = \frac{C(2.1) \cdot C(3,1) + C(2.2)}{V(outcomes)} = \frac{7}{10}$
<u> </u>	/v (outcomes)
	C. the total years of the teaching experience respectively are
<b>?</b>	99, 10, 13, 17, 13, 16, 20, 17, 21, 24}
	The probability that two has total 153 teaching experience is $P = \frac{6}{10} = \frac{3}{5}$
· ·	
= 5	
<u> </u>	



Section \$2.3.	
30. a. There are $P(8.3) = \frac{8!}{5!} = 336$ ways.	
b. There are C(30.6) = 30! = 593775 way	
(- THERE WE (-8.1). (415) - (415) - 81 101 - 83400 MARTY.	
For zintandel, there are (22,2). ((22,4) = 8! x 22 x 22 years.	
Fox merlot There are ((10.2) ((20.4) = 812) × 161 2 = 218025 ways	-
For cabernet there are Co12.2). (a) 4) = 12! × 14:4! = 20196 aways	
C. There are $C(\theta, 2) \cdot C( 0, 2) \cdot C( 2, 2) = \frac{8!}{6!2!} \times \frac{ 0 }{8!x^2!} \times \frac{ 2 }{ 0 -2 } = 83162$ ways  d. The probability is $83160/(30, 6) = 0.14$ e. There are $C(\theta, 6) + C( 0, 6) + C( 2, 6) = \frac{8!}{6!2!} + \frac{ 0 }{6!4!} + \frac{ 2 }{6!6!} =  1  62$ regs.	
The probability: $\frac{116^2}{\text{Cc30,6}} = 02 \times 10^{-3}$	II.
38. a. Giving that Ais the event that exactly two bulbs are rated 25 w	=
$P(A) = \frac{C(6,2) \cdot C(9.1)}{C(15,3)} = \frac{27}{91}$	4
465	
b. Giving that 13 is the event that three of selected bulb are with some route.	1
$P_{(B)} = \frac{C(6,3) + C(4,3) + C(5,3)}{C(15,3)} = \frac{34}{455}$	. 🗀
C. Giring that C is the event that each type is selected.	
$P_{cc} = \frac{(6,1)\cdot (c+1)\cdot (c+1)\cdot (c+1)}{(c+1)\cdot (c+1)\cdot (c+1)} = \frac{24}{91}$	- 5
d. giving that & Distherent that hecessary to examine atlease 6 aulss.	-
Port Control of	
Proses - Crown - Crown - Crown	
$P(0) = \frac{(cq.4)(6.0)}{(c(5.5))} \frac{(cq.3)(6.0)}{(c(5.4))} \frac{(cq.3)(6.0)}{(c(5.3))} (cq.3)(6.0$	
(C15,5) - (C15,4) (C15,3) (C15,2) (019.1) (C15,1)	



40. a. For each character there are Pc3,3) = 6 ways.	
There are PC12, 12) = 12! mays if they are distinguish.	
There are PC12.12) = 369 Goo nays.	
Pc3.3)4	
5. Giring that the product each type of olement are close to is	13
P(B) = P(4.4) = 6.4 4 xb-5	
3 696 00	
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