01/18/2	CS 395 NAME: SHREYAS
	HW2 NAME, SHREYAS HW2 SRIDIVASA
	BLAZER ID > SSRINIWA
1.An	The bridges are babeled A, B, and C.
	3
	The probability that Irridge A is up is 98%.
**	= 0,48
	N
	The probability that bridge B is up is 97.1.
37 38 74 65°	The probability that bridge (in up is 96.1.
	= 0.46
5 th 12	My probability that on any day an
	Marie Day Day Maring 14 14
	pospital in Backton is: 1 - h (were ref
	bridge core up)
	= 1- h(Air not up) x h(Bis not
	(fu tom ni) dx (fu
£ .	$(10.9) \times (1-0.97) \times (1-0.96)$
	$= (1-0.98) \times (1-0.97) \times (1-0.96)$ $= (-(0.02) \times (0.03) \times (6.04)$
	= (-(0.02) × (0.03) // (0.03)
	= 0.999976
	-0.47770
	And the second s

1 1	Date:01/lt /long
2 Ary	
- 2. Am	Here P(1) + P(2) -1 P(3) + P(4) + P(G) + P(6)=1
	h(1) = h(3) = h(9)
	V(5) = V(4) - V(9)
	now, p(2) = 2 x p(1)
	p(1) + p(2) + p(3) + p(4) + p(6) = 1
	h(1) = h(3) = h(5)
	V(5) = V(4) = V(6) = 5 × V(1)
	$= p(3) \cdot p(3) \cdot p(4) + p(5) + p(6) = 1$
	> b(1) + b(5) + b(3) + b(4) + b(2) + b(6) = 1
	1 (5×V(1))=1
-	7 / (1) (1+2+1+2+1+2)=1
=	$7 \mathcal{N}(1) \times \mathbb{R}(q) = 1$
-	$=$ 7 $\bigwedge(1) = \frac{1}{9}$
	= 7 h(1) = h(3) = h(3) = 1
	A MILL OF THE PROPERTY OF THE
melia	
Well no =	$=7$ $h(2)=h(4)=h(6)=\frac{2}{9}$
17311	
	Who probability that the outcome is less
4	The hydrona (1) + (3)
7-1-1	than 4 = 1 + 2 + 1
11, 11, 11	
Allows into	desident but but de of 0.4444
	to the Color
5 :	Ø · ·

	Date:0\/\tau\col_3
3.Awx	a) When my roll two foir 6-sided in the
7.7147	dice then doubles can be realled in the form regi- (1,1) (2,2) (3,3), (4,4),
	Journ 10:- (1,1) (2,2) (3,3), (1,4)
	(5,5),(6,6).
	retal contrame of drouble = 6
	N = G.
	There are 36 housild outromy
	When 2 frain sin sided dire are realled.
	: N = 36.
	Predicility that doubles are shalled
1 1 1	= N
	= 61
	366
	6
	Notion two fair 6-sided due very evalled,
(b)	that he outcomes whose sum is + or less
	thân 4 au = (1,1) (1,2), (1,1)
	Libri describer
	Here two droubles are present=(1,1)
	, , , , , , , , , , , , , , , , , , , ,
	Conditioned perobability that doubles are enabled
	$V(K) = \frac{\pi}{2}$
	= 1
34	3

	Date:0 (1301 2073
(0)	one trad to verting prosting placed for soi
	die grall is a 6 = (1,6) (2,6) (3,6) (4,0)
	(5,6), (6, 4), (6,3)
	(6, 2), (6, 1), (6, 6)
-	Here, total we see outcomes = 11
	-: Bord sub and teast to that of black fore die grall is a
-	6 = 11
	10 1 - Ma total mumber
(a)	Since two dies are realled. The trotal number
	of outcomer will be 36.
	Outrienes when the dies lands on same
	mumber is (1,1), (2,2), (3,3), (4,4), (9,9)
	(6,6).
	Henry those are a controver.
	i we at contrained where the grad land
and the second	con different member = 36-6
	can balthouse 1. 30 contrained
	W/ Viele
	Now rout rof 30 outrong the controner
	whose at loost one are many of the
	= (1, 6), (2, 6), (3, 6), (4, 6), (5, 6), (6, 5)
13000 ju	(6, 4), (6, 3), (6, 2), (6, 1)
9 10 2 10	Neve total routromes = 10
	Here total rounding
	Roaditional perobability that at least one die
	Holl is 106 = 100 = 1
***	holl is 106 = 100 = 1

and the second