

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Aidan Chin													
2	ECE 202 E7													
3	12/2/2023													
	this excel doc calculates the probability of getting a certain number from a 2 dice roll with either 4 or 6 sides													
4									Sum of both dice					
5							Die 1	6	7	8	9	10	11	12
6	States of 1 die	Probability P(n)						5	6	7	8	9	10	11
7	1	16.67%						4	5	6	7	8	9	10
8	2	16.67%						3	4	5	6	7	8	9
9	3	16.67%						2	3	4	5	6	7	8
10	4	16.67%						1	2	3	4	5	6	7
11	5	16.67%							1	2	3	4	5	6
12	6	16.67%							Die 2					
13														
14	Number of dice (N)	2	USER INPUT = BLUE											
15	Number of sides (S)	6												
16	(predict) Number of microstates (n)	36	OUTPUT = ORANGE											
17	(predict) Number of macrostates	11												
18														
19	macrostate n (total # on both dice)	# of microstates	Probability P(n)											
20	2	1	2.78%											
21	3	2	5.56%											
22	4	3	8.33%											
23	5	4	11.11%											
24	6	5	13.89%											
25	7	6	16.67%											
26	8	5	13.89%											
27	9	4	11.11%											
28	10	3	8.33%											
29	11	2	5.56%											
30	12	1	2.78%											
31														
32	CHECK total # of macrostates	CHECK total # of microstates	CHECK total probability											
33	0	0	100.00%											
34	Should be zero	should be zero	should be 100%											
35														
36	Most likely macrostate	7												

[illegible]

Aidan Chin | ECE 202 | 12/2/2023

Probability $P(n)$ of getting a certain number on 2 6-sided dice

