

	A	B	C	D	E	F	G
1	Aidan Chin				die 1	die 2	sum
2	ECE 202 E5				1	1	2
3	10/20/2023				2	1	3
4	this excel doc calculates the probability of getting a certain number from a 2 dice roll				3	1	4
5					4	1	5
6	States of 1 die	Probability P(n)			5	1	6
7	1	16.67%			6	1	7
8	2	16.67%			1	2	3
9	3	16.67%			2	2	4
10	4	16.67%			3	2	5
11	5	16.67%			4	2	6
12	6	16.67%			5	2	7
13					6	2	8
14					1	3	4
15	Number of dice (N)	2			2	3	5
16	(predict) Number of microstates (n)	36			3	3	6
17	(predict) Number of macrostates	11			4	3	7
18					5	3	8
19	macrostate n (total # on both dice)	# of microstates	Probability P(n)		6	3	9
20	2	1	2.78%		1	4	5
21	3	2	5.56%		2	4	6
22	4	3	8.33%		3	4	7
23	5	4	11.11%		4	4	8
24	6	5	13.89%		5	4	9
25	7	6	16.67%		6	4	10
26	8	5	13.89%		1	5	6
27	9	4	11.11%		2	5	7
28	10	3	8.33%		3	5	8
29	11	2	5.56%		4	5	9
30	12	1	2.78%		5	5	10
31					6	5	11
32	CHECK total # of macrostates	CHECK total # of microstates	CHECK total probability		1	6	7
33	0	0	100.00%		2	6	8
34	Should be zero	should be zero	should be 100%		3	6	9
35					4	6	10
36	Most likely macrostate	7			5	6	11
37					6	6	12