

1												
2												
3	Outcome	2	3	4	5	6	7	8				
4	Probability	0.0400	0.1100	0.2000	0.3000	0.2000	0.1100	0.0400				
5												
6												
7												
8							Die #1					
9	roll	Die #1 prob	Die #2 prob				1	2	3	4		
10	1	0.4	0.1		Die #2	1	0.0400	0.0300	0.0200	0.0100		
11	2	0.3	0.2			2	0.0800	0.0600	0.0400	0.0200		
12	3	0.2	0.3			3	0.1200	0.0900	0.0600	0.0300		
13	4	0.1	0.4			4	0.1600	0.1200	0.0800	0.0400		
14	total	1	1									
15												
16												
17		my chart just to remind me of the boxes										
18			Die #1									
19			1	2	3	4	5					
20		Die #1	2	3	4	5	6					
21			3	4	5	6	7					
22			4	5	6	7	8					
23												
24												
25												
26												
27												

	A	B	C	D	E	F	G	H	I	J	K	
1												
2												
3	Outcome	2	3	4	5	6	7	8				
4	Probability	=G10	=G11+H10	=G12+H11+I10	=G13+H12+I11+J10	=H13+I12+J11	=I13+J12	=J13				
5												
6												
7							Die #1					
9	roll	Die #1 prob	Die #2 prob		Die #2	1	2	3	4			
10	1	0.4	0.1			=B\$10*C10	=B\$11*C10	=B\$12*C10	=B\$13*C10			
11	2	0.3	0.2			=B\$10*C11	=B\$11*C11	=B\$12*C11	=B\$13*C11			
12	3	0.2	0.3			=B\$10*C12	=B\$11*C12	=B\$12*C12	=B\$13*C12			
13	4	0.1	0.4			=B\$10*C13	=B\$11*C13	=B\$12*C13	=B\$13*C13			
14	total	=SUM(B10:B13)	=SUM(C10:C13)									
15												
16												
17		my chart just to remind me of the boxes										
18				Die #1								
19				1	2	3	4					
20			1	2	3	4	5					
21		Die #2	2	3	4	5	6					
22			3	4	5	6	7					
23			4	5	6	7	8					
24												
25												
26												
27												

Sheet3

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1						Die #1		Die #2							
2	Die #1	probability	Die #2	Probability		roll	prob	roll	prob	sum	prob		Outcome	Probability	
3	1	0.1000	1	0.1000		1	0.1000	1	0.1000	2	0.0100		2	0.0100	
4	2	0.2000	2	0.1000		2	0.2000	1	0.1000	3	0.0200		3	0.0300	
5	3	0.3000	3	0.2000		1	0.1000	2	0.1000	3	0.0100		4	0.0700	
6	4	0.4000	4	0.7000		2	0.2000	2	0.1000	4	0.0200		5	0.1800	
7						1	0.1000	3	0.2000	4	0.0200		6	0.2400	
8						3	0.3000	1	0.1000	4	0.0300		7	0.2900	
9						3	0.3000	2	0.1000	5	0.0300		8	0.2800	
10						4	0.4000	1	0.1000	5	0.0400				
11						1	0.1000	4	0.7000	5	0.0700				
12						2	0.2000	3	0.2000	5	0.0400				
13						4	0.4000	2	0.1000	6	0.0400				
14						2	0.2000	4	0.7000	6	0.1400				
15						3	0.3000	3	0.2000	6	0.0600				
16						4	0.4000	3	0.2000	7	0.0800				
17						3	0.3000	4	0.7000	7	0.2100				
18						4	0.4000	4	0.7000	8	0.2800				
19															
20															

	A	B	C	D	E	F	G	H	I	J	K
1							Die #1		Die #2		
2	Die #1	probability	Die #2	Probability		roll	prob	roll	prob	sum	prob
3	1	0.1000	1	0.1000		1	=VLOOKUP(F3,\$A\$3:\$B\$6.2)	1	=VLOOKUP(H3,\$C\$3:\$D\$6.2)	2	=G3*13
4	2	0.2000	2	0.1000		2	=VLOOKUP(F4,\$A\$3:\$B\$6.2)	1	=VLOOKUP(H4,\$C\$3:\$D\$6.2)	3	=G4*14
5	3	0.3000	3	0.2000		1	=VLOOKUP(F5,\$A\$3:\$B\$6.2)	2	=VLOOKUP(H5,\$C\$3:\$D\$6.2)	3	=G5*15
6	4	0.4000	4	0.7000		2	=VLOOKUP(F6,\$A\$3:\$B\$6.2)	2	=VLOOKUP(H6,\$C\$3:\$D\$6.2)	4	=G6*16
7						1	=VLOOKUP(F7,\$A\$3:\$B\$6.2)	3	=VLOOKUP(H7,\$C\$3:\$D\$6.2)	4	=G7*17
8						3	=VLOOKUP(F8,\$A\$3:\$B\$6.2)	1	=VLOOKUP(H8,\$C\$3:\$D\$6.2)	4	=G8*18
9						3	=VLOOKUP(F9,\$A\$3:\$B\$6.2)	2	=VLOOKUP(H9,\$C\$3:\$D\$6.2)	5	=G9*19
10						4	=VLOOKUP(F10,\$A\$3:\$B\$6.2)	1	=VLOOKUP(H10,\$C\$3:\$D\$6.2)	5	=G10*110
11		Outcome	Probability			1	=VLOOKUP(F11,\$A\$3:\$B\$6.2)	4	=VLOOKUP(H11,\$C\$3:\$D\$6.2)	5	=G11*111
12	2		=K3			2	=VLOOKUP(F12,\$A\$3:\$B\$6.2)	3	=VLOOKUP(H12,\$C\$3:\$D\$6.2)	5	=G12*112
13	3		=SUM(K4:K5)			4	=VLOOKUP(F13,\$A\$3:\$B\$6.2)	2	=VLOOKUP(H13,\$C\$3:\$D\$6.2)	6	=G13*113
14	4		=SUM(K6:K8)			2	=VLOOKUP(F14,\$A\$3:\$B\$6.2)	4	=VLOOKUP(H14,\$C\$3:\$D\$6.2)	6	=G14*114
15	5		=SUM(K9:K12)			3	=VLOOKUP(F15,\$A\$3:\$B\$6.2)	3	=VLOOKUP(H15,\$C\$3:\$D\$6.2)	6	=G15*115
16	6		=SUM(K13:K15)			4	=VLOOKUP(F16,\$A\$3:\$B\$6.2)	3	=VLOOKUP(H16,\$C\$3:\$D\$6.2)	7	=G16*116
17	7		=SUM(K16:K17)			3	=VLOOKUP(F17,\$A\$3:\$B\$6.2)	4	=VLOOKUP(H17,\$C\$3:\$D\$6.2)	7	=G17*117
18	8		=K18			4	=VLOOKUP(F18,\$A\$3:\$B\$6.2)	4	=VLOOKUP(H18,\$C\$3:\$D\$6.2)	8	=G18*118
19											