

	A	B	C	D	E	F
1						
2	draws	2	cost of game		3	
3						
4	red	green		total		
5	10	15		25		
6						
7	winnings	0	2	5		
8	net winnings	-3	-1	2		
9	number of red	0	1	2		total prob
10	prob	0.35000	0.50000	0.15000		1
11						
12		Expected profit			Expected number of red balls	
13		-1.25			0.8	

	A	B	C	D	E	F
1						
2	draws	2		cost of game	3	
3						
4	red	green		total		
5	10	15		=SUM(A5:B5)		
6						
7	winnings	0	2		5	
8	net winnings	=B7-\$E\$2	=C7-\$E\$2	=D7-\$E\$2		
9	number of red	0	1		2	total prob
10	prob	=COMBIN(\$A\$5,B9)*COMBIN(\$B\$5,\$B\$2-B9)/COMBIN(\$D\$5,\$B\$2)	=COMBIN(\$A\$5,C9)*COMBIN(\$B\$5,\$B\$2-C9)/COMBIN(\$D\$5,\$B\$2)	=COMBIN(\$A\$5,D9)*COMBIN(\$B\$5,\$B\$2-D9)/COMBIN(\$D\$5,\$B\$2)		=SUM(B10:E10)
11						
12		Expected profit			Expected number of red balls	
13		=SUMPRODUCT(B8:D8,B10:D10)			=SUMPRODUCT(B9:D9,B10:D10)	