

Dice Game Data Sheet

	First Player											Second Player											Winner					
	1	2	3	4	5	S2	S3	S4	S5	R	Score	1	2	3	4	5	S2	S3	S4	S5	R	Score	WF	WS	Tie			
1	3	6	2	3	6	9	11	14	20	2	9	1	1	6	6	2	2	8	14	16	3	8	F					
2	4	6	4	2	5	10	14	16	21	2	10	4	2	6	3	5	6	12	15	20	2	BUST	F					
3	3	3	1	6	5	6	7	13	18	3	7	1	5	5	3	1	6	11	14	15	2	BUST	F					
4	5	1	4	1	4	6	10	11	15	3	10	5	6	5	4	2	11	16	20	22	1	BUST	F					
5	6	6	5	3	2	12	17	20	22	1	BUST	3	2	2	2	5	5	7	9	14	4			S				
6	4	4	2	4	1	8	10	14	15	3	8	2	2	5	3	2	4	9	12	14	3	9			S			
7	4	3	1	2	6	7	8	10	16	4	7	2	4	1	5	3	6	7	12	15	3	BUST	F					
8	2	5	2	2	2	7	9	11	13	3	7	4	3	5	5	5	7	12	17	22	2	BUST	F					
9	4	4	4	4	6	8	12	16	22	2	8	4	2	3	6	5	6	9	15	20	3	9			S			
10	4	6	1	6	3	10	11	17	20	2	10	3	6	1	5	3	9	10	15	18	3	Tie				T		
11	6	3	1	3	3	9	10	13	16	3	9	3	5	3	1	6	8	11	12	18	2	BUST	F					
12	3	3	5	1	4	6	11	12	16	2	BUST	5	5	5	1	3	10	15	16	19	2				S			
13	4	3	2	5	4	7	9	14	18	3	7	6	5	4	2	1	11	15	17	18	1	BUST	F					
14	2	1	2	3	4	3	5	8	12	4	8	4	6	5	3	2	10	15	18	20	2	10			S			
15	2	3	2	4	6	5	7	11	17	3	7	6	1	2	1	6	7	9	10	16	4	9			S			
16	1	6	4	1	2	7	11	12	14	2	7	2	6	4	5	3	8	12	17	20	2	8			S			
17	2	3	1	1	5	5	6	7	12	4	7	1	2	2	2	5	3	5	7	12	4	Tie				T		
18	1	5	6	1	5	6	12	13	18	2	BUST	5	4	4	3	5	9	13	16	21	2				S			
19	5	4	2	2	1	9	11	13	14	2	9	1	2	6	6	4	3	9	15	19	3					T		
20	4	2	4	6	2	6	10	16	18	3	10	5	5	6	3	3	10	16	19	22	2	Tie				T		
21	4	3	5	3	6	7	12	15	21	2	7	2	4	2	6	1	6	8	14	15	3	8			S			
22	5	6	6	1	4	11	17	18	22	1	BUST	4	4	4	1	2	8	12	13	15	2				S			
23	2	1	3	1	2	3	6	7	9	5	7	5	5	6	2	4	10	16	18	22	2	10			S			
24	3	5	2	2	2	8	10	12	14	3	8	3	4	2	6	1	7	9	15	16	3	9			S			
25	5	6	1	5	2	11	12	17	19	1	BUST	4	6	2	3	6	10	12	15	21	2				S			
26	4	1	5	1	5	5	10	11	16	3	10	5	2	4	5	5	7	11	16	21	2	BUST	F					
27	4	5	2	3	6	9	11	14	20	2	9	1	6	2	1	1	7	9	10	11	4	10			S			
28	5	5	4	3	2	10	14	17	19	2	10	6	1	2	2	6	7	9	11	17	3	BUST	F					
29	6	1	4	5	5	7	11	16	21	2	7	1	3	6	2	3	4	10	12	15	3	10			S			
30	1	3	2	2	1	4	6	8	9	5	8	3	1	3	1	3	4	7	8	11	4	Tie					T	

Sum of first 2 dice

X	Cnt	P(X)	E(X)
2	1	0.017	0.033
3	4	0.067	0.200
4	4	0.067	0.267
5	4	0.067	0.333
6	10	0.167	1.000
7	12	0.200	1.400
8	6	0.100	0.800
9	6	0.100	0.900
10	8	0.133	1.333
11	4	0.067	0.733
12	1	0.017	0.200
Σ	60	1.000	7.200

Theory

X	P(X)
1	0.0278
2	0.0556
3	0.0833
4	0.1111
5	0.1389
6	0.1667
5	0.1389
4	0.1111
3	0.0833
2	0.0556
1	0.0278
36	1.000

Rolls before bust

X	Cnt	P(X)	E(X)
1	5	0.0833	0.083
2	25	0.4167	0.833
3	20	0.3333	1.000
4	8	0.1333	0.533
5	2	0.0333	0.167
6	0	0	0.000
Σ	60	1.000	2.617

	Cnt	Pct
Times first player won	10	40%
Times second player won	15	60%
Times Player 1 busted	5	17%
Times Player 2 busted	10	33%

Sum of first 3 dice

X	Cnt	P(X)	E(X)
3	0	0.0000	0.000
4	0	0.0000	0.000
5	2	0.0333	0.167
6	3	0.0500	0.300
7	5	0.0833	0.583
8	3	0.0500	0.400
9	9	0.1500	1.350
10	8	0.1333	1.333
11	10	0.1667	1.833
12	9	0.1500	1.800
13	1	0.0167	0.217
14	2	0.0333	0.467
15	3	0.0500	0.750
16	3	0.0500	0.800
17	2	0.0333	0.567
18	0	0.0000	0.000
Σ	60	1.000	10.567

Theory

X	P(X)
1	0.0046
3	0.0139
6	0.0278
10	0.0463
15	0.0694
21	0.0972
25	0.1157
27	0.1250
27	0.1250
25	0.1157
21	0.0972
15	0.0694
10	0.0463
6	0.0278
3	0.0139
1	0.0046
216	1.0000

Rolls to get 10|10

	Cnt	P(X)	Theory	E(X)
2	8	0.4	0.2896	0.57912
3	7	0.389	0.4343	1.30303
4	3	0.167	0.2145	0.85796
5	0	0.000	0.0563	0.28152
Σ	18	1.000	0.9947	3.02163



