

Comparison of Advantage/Disadvantage system to +2/-2 system

Roll/DC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
P(Roll)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
P(Success)	1	0.95	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55	0.5	0.45	0.4	0.35	0.3	0.25	0.2	0.15	0.1	0.05
P(Roll +2)	0	0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
P(Success +2)	1	1	1	0.95	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55	0.5	0.45	0.4	0.35	0.3	0.25	0.2	0.15
P(Roll -2)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0	0
P(Success -2)	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55	0.5	0.45	0.4	0.35	0.3	0.25	0.2	0.15	0.1	0.05	0	0
P(Advantage)	0.0025	0.0075	0.0125	0.0175	0.0225	0.0275	0.0325	0.0375	0.0425	0.0475	0.0525	0.0575	0.0625	0.0675	0.0725	0.0775	0.0825	0.0875	0.0925	0.0975
P(Success Advantage)	1	0.9975	0.99	0.9775	0.96	0.9375	0.91	0.8775	0.84	0.7975	0.75	0.6975	0.64	0.5775	0.51	0.4375	0.36	0.2775	0.19	0.0975
P(Disadvantage)	0.0975	0.0925	0.0875	0.0825	0.0775	0.0725	0.0675	0.0625	0.0575	0.0525	0.0475	0.0425	0.0375	0.0325	0.0275	0.0225	0.0175	0.0125	0.0075	0.0025
P(Success Disadvantage)	1	0.9025	0.81	0.7225	0.64	0.5625	0.49	0.4225	0.36	0.3025	0.25	0.2025	0.16	0.1225	0.09	0.0625	0.04	0.0225	0.01	0.0025
Diff Between P(Success) And P(Success +2)	0	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Diff Between P(Success) And P(Success -2)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.05
Diff Between P(Success) And P(Success Advantage)	0	0.0475	0.09	0.1275	0.16	0.1875	0.21	0.2275	0.24	0.2475	0.25	0.2475	0.24	0.2275	0.21	0.1875	0.16	0.1275	0.09	0.0475
Diff Between P(Success) And P(Success Disadvantage)	0	-0.0475	-0.09	-0.1275	-0.16	-0.1875	-0.21	-0.2275	-0.24	-0.2475	-0.25	-0.2475	-0.24	-0.2275	-0.21	-0.1875	-0.16	-0.1275	-0.09	-0.0475

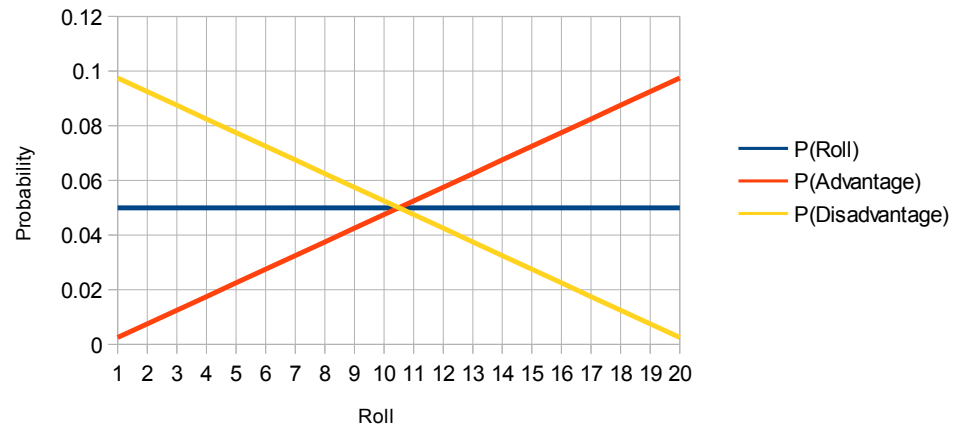
Ave Improvement for +2 from DC 1-20	0.0925
Std Dev for +2 from DC 1-20	0.02385

Ave Imp for Advantage from DC 1-20	0.16625
Std Dev for Advantage from DC 1-20	0.07546

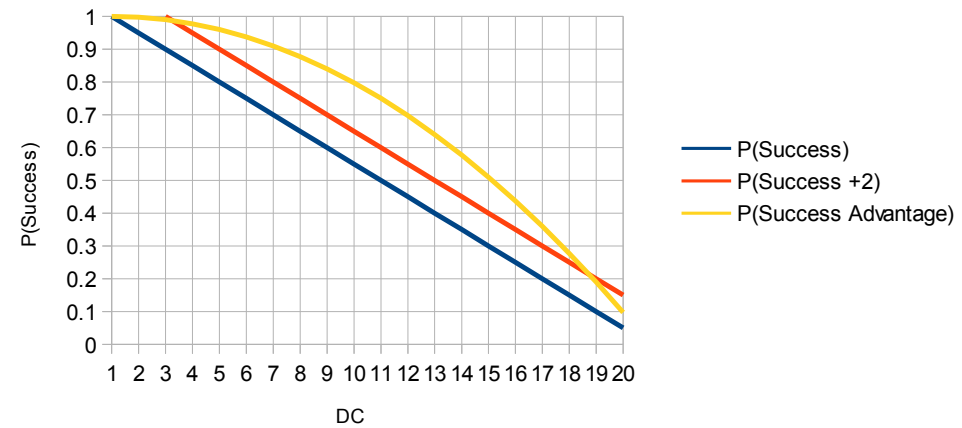
Ave penalty for -2 from DC 1-20	-0.0975
Std Dev for -2 from DC 1-20	0.0109

Ave Penalty for Disadvantage from DC 1-20	-0.16625
Std Dev for Disadvantage from DC 1-20	0.07546

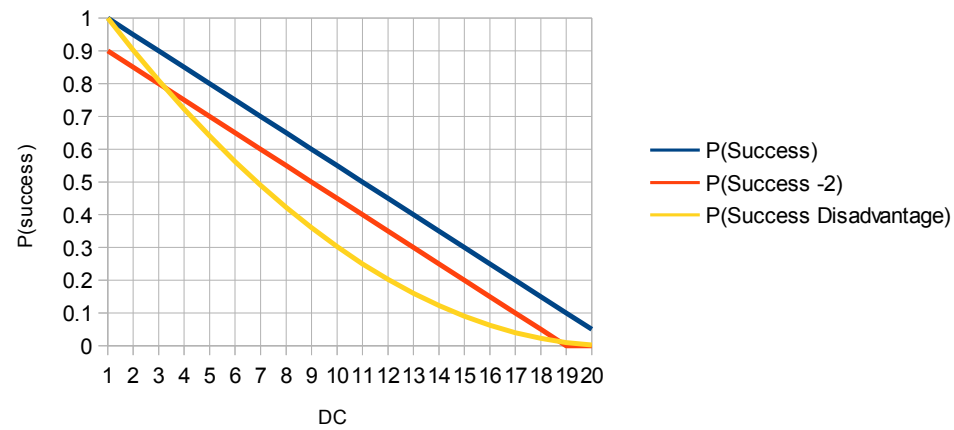
P(Roll) with Advantage, Disadvantage, Neither



P(Success), No bonus vs Advantage vs +2



P(Success), No bonus vs Disadvantage vs -2



P(Success) for 5 Types of Rolls

