

Binomial Distribution Probabilities: n choices, q = 1 - p

$$P(x) = {}_n C_x p^x q^{n-x}$$

n	x	p													
		0.05	0.10	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95	
1	0	.950	.900	.800	.750	.700	.600	.500	.400	.300	.250	.200	.100	.050	
	1	.050	.100	.200	.250	.300	.400	.500	.600	.700	.750	.800	.900	.950	
2	0	.903	.810	.640	.563	.490	.360	.250	.160	.090	.063	.040	.010	.003	
	1	.095	.180	.320	.375	.420	.480	.500	.480	.420	.375	.320	.180	.095	
	2	.003	.010	.040	.063	.090	.160	.250	.360	.490	.563	.640	.810	.903	
3	0	.857	.729	.512	.422	.343	.216	.125	.064	.027	.016	.008	.001	.000	
	1	.135	.243	.384	.422	.441	.432	.375	.288	.189	.141	.096	.027	.007	
	2	.007	.027	.096	.141	.189	.288	.375	.432	.441	.422	.384	.243	.135	
	3	.000	.001	.008	.016	.027	.064	.125	.216	.343	.422	.512	.729	.857	
4	0	.815	.656	.410	.316	.240	.130	.063	.026	.008	.004	.002			
	1	.171	.292	.410	.422	.412	.346	.250	.154	.076	.047	.026	.004		
	2	.014	.049	.154	.211	.265	.346	.375	.346	.265	.211	.154	.049	.014	
	3		.004	.026	.047	.076	.154	.250	.346	.412	.422	.410	.292	.171	
	4			.002	.004	.008	.026	.063	.130	.240	.316	.410	.656	.815	
5	0	.774	.590	.328	.237	.168	.078	.031	.010	.002	.001				
	1	.204	.328	.410	.396	.360	.259	.156	.077	.028	.015	.006	.000		
	2	.021	.073	.205	.264	.309	.346	.313	.230	.132	.088	.051	.008	.001	
	3	.001	.008	.051	.088	.132	.230	.313	.346	.309	.264	.205	.073	.021	
	4			.006	.015	.028	.077	.156	.259	.360	.396	.410	.328	.204	
	5				.001	.002	.010	.031	.078	.168	.237	.328	.590	.774	
6	0	.735	.531	.262	.178	.118	.047	.016	.004	.001					
	1	.232	.354	.393	.356	.303	.187	.094	.037	.010	.004	.002			
	2	.031	.098	.246	.297	.324	.311	.234	.138	.060	.033	.015	.001		
	3	.002	.015	.082	.132	.185	.276	.313	.276	.185	.132	.082	.015	.002	
	4		.001	.015	.033	.060	.138	.234	.311	.324	.297	.246	.098	.031	
	5			.002	.004	.010	.037	.094	.187	.303	.356	.393	.354	.232	
	6					.001	.004	.016	.047	.118	.178	.262	.531	.735	

n	x	p													
		0.05	0.10	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95	
7	0	.698	.478	.210	.133	.082	.028	.008	.002						
	1	.257	.372	.367	.311	.247	.131	.055	.017	.004	.001				
	2	.041	.124	.275	.311	.318	.261	.164	.077	.025	.012	.004			
	3	.004	.023	.115	.173	.227	.290	.273	.194	.097	.058	.029	.003		
	4		.003	.029	.058	.097	.194	.273	.290	.227	.173	.115	.023	.004	
	5			.004	.012	.025	.077	.164	.261	.318	.311	.275	.124	.041	
	6				.001	.004	.017	.055	.131	.247	.311	.367	.372	.257	
	7						.002	.008	.028	.082	.133	.210	.478	.698	
8	0	.663	.430	.168	.100	.058	.017	.004	.001						
	1	.279	.383	.336	.267	.198	.090	.031	.008	.001					
	2	.051	.149	.294	.311	.296	.209	.109	.041	.010	.004	.001			
	3	.005	.033	.147	.208	.254	.279	.219	.124	.047	.023	.009			
	4		.005	.046	.087	.136	.232	.273	.232	.136	.087	.046	.005		
	5			.009	.023	.047	.124	.219	.279	.254	.208	.147	.033	.005	
	6			.001	.004	.010	.041	.109	.209	.296	.311	.294	.149	.051	
	7					.001	.008	.031	.090	.198	.267	.336	.383	.279	
	8						.001	.004	.017	.058	.100	.168	.430	.663	
9	0	.630	.387	.134	.075	.040	.010	.002							
	1	.299	.387	.302	.225	.156	.060	.018	.004						
	2	.063	.172	.302	.300	.267	.161	.070	.021	.004	.001				
	3	.008	.045	.176	.234	.267	.251	.164	.074	.021	.009	.003			
	4	.001	.007	.066	.117	.172	.251	.246	.167	.074	.039	.017	.001		
	5		.001	.017	.039	.074	.167	.246	.251	.172	.117	.066	.007	.001	
	6			.003	.009	.021	.074	.164	.251	.267	.234	.176	.045	.008	
	7				.001	.004	.021	.070	.161	.267	.300	.302	.172	.063	
	8						.004	.018	.060	.156	.225	.302	.387	.299	
	9							.002	.010	.040	.075	.134	.387	.630	
10	0	.599	.349	.107	.056	.028	.006	.001							
	1	.315	.387	.268	.188	.121	.040	.010	.002						
	2	.075	.194	.302	.282	.233	.121	.044	.011	.001					
	3	.010	.057	.201	.250	.267	.215	.117	.042	.009	.003	.001			
	4	.001	.011	.088	.146	.200	.251	.205	.111	.037	.016	.006			
	5		.001	.026	.058	.103	.201	.246	.201	.103	.058	.026	.001		
	6			.006	.016	.037	.111	.205	.251	.200	.146	.088	.011	.001	
	7			.001	.003	.009	.042	.117	.215	.267	.250	.201	.057	.010	
	8					.001	.011	.044	.121	.233	.282	.302	.194	.075	
	9						.002	.010	.040	.121	.188	.268	.387	.315	
	10							.001	.006	.028	.056	.107	.349	.599	

n	x	p													
		0.05	0.10	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95	
11	0	.569	.314	.086	.042	.020	.004								
	1	.329	.384	.236	.155	.093	.027	.005	.001						
	2	.087	.213	.295	.258	.200	.089	.027	.005	.001					
	3	.014	.071	.221	.258	.257	.177	.081	.023	.004	.001				
	4	.001	.016	.111	.172	.220	.236	.161	.070	.017	.006	.002			
	5		.002	.039	.080	.132	.221	.226	.147	.057	.027	.010			
	6			.010	.027	.057	.147	.226	.221	.132	.080	.039	.002		
	7			.002	.006	.017	.070	.161	.236	.220	.172	.111	.016	.001	
	8				.001	.004	.023	.081	.177	.257	.258	.221	.071	.014	
	9					.001	.005	.027	.089	.200	.258	.295	.213	.087	
	10						.001	.005	.027	.093	.155	.236	.384	.329	
11								.004	.020	.042	.086	.314	.569		
12	0	.540	.282	.069	.032	.014	.002								
	1	.341	.377	.206	.127	.071	.017	.003							
	2	.099	.230	.283	.232	.168	.064	.016	.002						
	3	.017	.085	.236	.258	.240	.142	.054	.012	.001					
	4	.002	.021	.133	.194	.231	.213	.121	.042	.008	.002	.001			
	5		.004	.053	.103	.158	.227	.193	.101	.029	.011	.003			
	6			.016	.040	.079	.177	.226	.177	.079	.040	.016			
	7			.003	.011	.029	.101	.193	.227	.158	.103	.053	.004		
	8			.001	.002	.008	.042	.121	.213	.231	.194	.133	.021	.002	
	9					.001	.012	.054	.142	.240	.258	.236	.085	.017	
	10						.002	.016	.064	.168	.232	.283	.230	.099	
	11							.003	.017	.071	.127	.206	.377	.341	
12								.002	.014	.032	.069	.282	.540		
13	0	.513	.254	.055	.024	.010	.001								
	1	.351	.367	.179	.103	.054	.011	.002							
	2	.111	.245	.268	.206	.139	.045	.010	.001						
	3	.021	.100	.246	.252	.218	.111	.035	.006	.001					
	4	.003	.028	.154	.210	.234	.184	.087	.024	.003	.001				
	5	.000	.006	.069	.126	.180	.221	.157	.066	.014	.005	.001			
	6		.001	.023	.056	.103	.197	.209	.131	.044	.019	.006			
	7			.006	.019	.044	.131	.209	.197	.103	.056	.023	.001		
	8			.001	.005	.014	.066	.157	.221	.180	.126	.069	.006		
	9				.001	.003	.024	.087	.184	.234	.210	.154	.028	.003	
	10					.001	.006	.035	.111	.218	.252	.246	.100	.021	
	11						.001	.010	.045	.139	.206	.268	.245	.111	
	12							.002	.011	.054	.103	.179	.367	.351	
13								.001	.010	.024	.055	.254	.513		

n	x	p													
		0.05	0.10	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95	
14	0	.488	.229	.044	.018	.007	.001								
	1	.359	.356	.154	.083	.041	.007	.001							
	2	.123	.257	.250	.180	.113	.032	.006	.001						
	3	.026	.114	.250	.240	.194	.085	.022	.003						
	4	.004	.035	.172	.220	.229	.155	.061	.014	.001					
	5		.008	.086	.147	.196	.207	.122	.041	.007	.002				
	6		.001	.032	.073	.126	.207	.183	.092	.023	.008	.002			
	7			.009	.028	.062	.157	.209	.157	.062	.028	.009			
	8			.002	.008	.023	.092	.183	.207	.126	.073	.032	.001		
	9				.002	.007	.041	.122	.207	.196	.147	.086	.008		
	10					.001	.014	.061	.155	.229	.220	.172	.035	.004	
	11						.003	.022	.085	.194	.240	.250	.114	.026	
	12							.001	.006	.032	.113	.180	.250	.257	.123
	13								.001	.007	.041	.083	.154	.356	.359
14									.001	.007	.018	.044	.229	.488	
15	0	.463	.206	.035	.013	.005									
	1	.366	.343	.132	.067	.031	.005								
	2	.135	.267	.231	.156	.092	.022	.003							
	3	.031	.129	.250	.225	.170	.063	.014	.002						
	4	.005	.043	.188	.225	.219	.127	.042	.007	.001					
	5	.001	.010	.103	.165	.206	.186	.092	.024	.003	.001				
	6		.002	.043	.092	.147	.207	.153	.061	.012	.003	.001			
	7			.014	.039	.081	.177	.196	.118	.035	.013	.003			
	8			.003	.013	.035	.118	.196	.177	.081	.039	.014			
	9			.001	.003	.012	.061	.153	.207	.147	.092	.043	.002		
	10				.001	.003	.024	.092	.186	.206	.165	.103	.010	.001	
	11					.001	.007	.042	.127	.219	.225	.188	.043	.005	
	12						.002	.014	.063	.170	.225	.250	.129	.031	
	13							.003	.022	.092	.156	.231	.267	.135	
	14								.005	.031	.067	.132	.343	.366	
15									.005	.013	.035	.206	.463		

n	x	p												
		0.05	0.10	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95
16	0	.440	.185	.028	.010	.003								
	1	.371	.329	.113	.053	.023	.003							
	2	.146	.275	.211	.134	.073	.015	.002						
	3	.036	.142	.246	.208	.146	.047	.009	.001					
	4	.006	.051	.200	.225	.204	.101	.028	.004					
	5	.001	.014	.120	.180	.210	.162	.067	.014	.001				
	6		.003	.055	.110	.165	.198	.122	.039	.006	.001			
	7			.020	.052	.101	.189	.175	.084	.019	.006	.001		
	8			.006	.020	.049	.142	.196	.142	.049	.020	.006		
	9			.001	.006	.019	.084	.175	.189	.101	.052	.020		
	10				.001	.006	.039	.122	.198	.165	.110	.055	.003	
	11					.001	.014	.067	.162	.210	.180	.120	.014	.001
	12						.004	.028	.101	.204	.225	.200	.051	.006
	13						.001	.009	.047	.146	.208	.246	.142	.036
	14							.002	.015	.073	.134	.211	.275	.146
	15								.003	.023	.053	.113	.329	.371
16									.003	.010	.028	.185	.440	
17	0	.418	.167	.023	.008	.002								
	1	.374	.315	.096	.043	.017	.002							
	2	.158	.280	.191	.114	.058	.010	.001						
	3	.041	.156	.239	.189	.125	.034	.005						
	4	.008	.060	.209	.221	.187	.080	.018	.002					
	5	.001	.017	.136	.191	.208	.138	.047	.008	.001				
	6		.004	.068	.128	.178	.184	.094	.024	.003	.001			
	7		.001	.027	.067	.120	.193	.148	.057	.009	.002			
	8			.008	.028	.064	.161	.185	.107	.028	.009	.002		
	9			.002	.009	.028	.107	.185	.161	.064	.028	.008		
	10				.002	.009	.057	.148	.193	.120	.067	.027	.001	
	11				.001	.003	.024	.094	.184	.178	.128	.068	.004	
	12					.001	.008	.047	.138	.208	.191	.136	.017	.001
	13						.002	.018	.080	.187	.221	.209	.060	.008
	14							.005	.034	.125	.189	.239	.156	.041
	15							.001	.010	.058	.114	.191	.280	.158
	16								.002	.017	.043	.096	.315	.374
17									.002	.008	.023	.167	.418	

n	x	p												
		0.05	0.10	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95
18	0	.397	.150	.018	.006	.002								
	1	.376	.300	.081	.034	.013	.001							
	2	.168	.284	.172	.096	.046	.007	.001						
	3	.047	.168	.230	.170	.105	.025	.003						
	4	.009	.070	.215	.213	.168	.061	.012	.001					
	5	.001	.022	.151	.199	.202	.115	.033	.004					
	6		.005	.082	.144	.187	.166	.071	.015	.001				
	7		.001	.035	.082	.138	.189	.121	.037	.005	.001			
	8			.012	.038	.081	.173	.167	.077	.015	.004	.001		
	9			.003	.014	.039	.128	.185	.128	.039	.014	.003		
	10			.001	.004	.015	.077	.167	.173	.081	.038	.012		
	11				.001	.005	.037	.121	.189	.138	.082	.035	.001	
	12					.001	.015	.071	.166	.187	.144	.082	.005	
	13						.004	.033	.115	.202	.199	.151	.022	.001
	14						.001	.012	.061	.168	.213	.215	.070	.009
	15							.003	.025	.105	.170	.230	.168	.047
	16							.001	.007	.046	.096	.172	.284	.168
	17								.001	.013	.034	.081	.300	.376
18									.002	.006	.018	.150	.397	
19	0	.377	.135	.014	.004	.001								
	1	.377	.285	.068	.027	.009	.001							
	2	.179	.285	.154	.080	.036	.005							
	3	.053	.180	.218	.152	.087	.017	.002						
	4	.011	.080	.218	.202	.149	.047	.007	.001					
	5	.002	.027	.164	.202	.192	.093	.022	.002					
	6		.007	.095	.157	.192	.145	.052	.008	.001				
	7		.001	.044	.097	.153	.180	.096	.024	.002				
	8			.017	.049	.098	.180	.144	.053	.008	.002			
	9			.005	.020	.051	.146	.176	.098	.022	.007	.001		
	10			.001	.007	.022	.098	.176	.146	.051	.020	.005		
	11				.002	.008	.053	.144	.180	.098	.049	.017		
	12					.002	.024	.096	.180	.153	.097	.044	.001	
	13					.001	.008	.052	.145	.192	.157	.095	.007	
	14						.002	.022	.093	.192	.202	.164	.027	.002
	15						.001	.007	.047	.149	.202	.218	.080	.011
	16							.002	.017	.087	.152	.218	.180	.053
	17								.005	.036	.080	.154	.285	.179
	18								.001	.009	.027	.068	.285	.377
19									.001	.004	.014	.135	.377	

n	x	p												
		0.05	0.10	0.20	0.25	0.30	0.40	0.50	0.60	0.70	0.75	0.80	0.90	0.95
20	0	.358	.122	.012	.003	.001								
	1	.377	.270	.058	.021	.007								
	2	.189	.285	.137	.067	.028	.003							
	3	.060	.190	.205	.134	.072	.012	.001						
	4	.013	.090	.218	.190	.130	.035	.005						
	5	.002	.032	.175	.202	.179	.075	.015	.001					
	6		.009	.109	.169	.192	.124	.037	.005					
	7		.002	.055	.112	.164	.166	.074	.015	.001				
	8			.022	.061	.114	.180	.120	.035	.004	.001			
	9			.007	.027	.065	.160	.160	.071	.012	.003			
	10			.002	.010	.031	.117	.176	.117	.031	.010	.002		
	11				.003	.012	.071	.160	.160	.065	.027	.007		
	12				.001	.004	.035	.120	.180	.114	.061	.022		
	13					.001	.015	.074	.166	.164	.112	.055	.002	
	14						.005	.037	.124	.192	.169	.109	.009	
	15						.001	.015	.075	.179	.202	.175	.032	.002
	16							.005	.035	.130	.190	.218	.090	.013
	17							.001	.012	.072	.134	.205	.190	.060
	18								.003	.028	.067	.137	.285	.189
	19									.007	.021	.058	.270	.377
20									.001	.003	.012	.122	.358	