Michael Buhlmann

Mathematik > Wahrscheinlichkeitstafeln > Geometrische Verteilung

Wahrscheinlichkeitstafel: Geometrische Verteilung G(0.05)

Auf Grundlage der Zufallsvariablen X, die die Anzahl der Versuchswiederholungen eines Bernoulli-Experiments zählt, bis der Treffer T bei Trefferwahrscheinlichkeit p = 0.05 auftritt mit p(X=k), p(X≤k) (kumuliert), Erwartungswert μ, Standardabweichung σ

G(0.05)		
k =	**p(X=k)** =	**p(x≤k)** =
1	0.05	0.05
2	0.0475	0.0975
3	0.045125	0.142625
4	0.04286875	0.18549375
5	0.04072531	0.22621906
6	0.03868905	0.26490811
7	0.03675459	0.3016627
8	0.03491686	0.33657957
9	0.03317102	0.36975059
10	0.03151247	0.40126306
11	0.02993685	0.43119991
12	0.02844	0.45963991
13	0.027018	0.48665792
14	0.0256671	0.51232502
15	0.02438375	0.53670877
16	0.02316456	0.55987333
17	0.02200633	0.58187966
18	0.02090602	0.60278568
19	0.01986072	0.6226464
20	0.01886768	0.64151408
21	0.0179243	0.65943837
22	0.01702808	0.67646646
23	0.01617668	0.69264313
24	0.01536784	0.70801098
25	0.01459945	0.72261043
26	0.01386948	0.73647991
27	0.013176	0.74965591
28	0.0125172	0.76217311
29	0.01189134	0.77406446
30	0.01129678	0.78536124
31	0.01073194	0.79609317
32	0.01019534	0.80628852
33	0.00968557	0.81597409
34	0.0092013	0.82517539
35	0.00874123	0.83391662
36	0.00830417	0.84222079
37	0.00788896	0.85010975
38	0.00749451	0.85760426

39	0.00711979	0.86472405
40	0.0067638	0.87148784
41	0.00642561	0.87791345
42	0.00610433	0.88401778
43	0.00579911	0.88981689
44	0.00550916	0.89532605
45	0.0052337	0.90055974
46	0.00497201	0.90553176
47	0.00472341	0.91025517
48	0.00448724	0.91474241
49	0.00426288	0.91900529
50	0.00404974	0.92305502
51	0.00384725	0.92690227
52	0.00365489	0.93055716
53	0.00347214	0.9340293
54	0.00329853	0.93732784
55	0.00313361	0.94046144
56	0.00297693	0.94343837
57	0.00282808	0.94626645
58	0.00268668	0.94895313
59	0.00255234	0.95150547
60	0.00242473	0.9539302
61	0.00230349	0.95623369
62	0.00218832	0.95842201
63	0.0020789	0.96050091
64	0.00197495	0.96247586
65	0.00187621	0.96435207
66	0.0017824	0.96613446
67	0.00169328	0.96782774
68	0.00160861	0.96943635
69	0.00152818	0.97096454
70	0.00145177	0.97241631
71	0.00137918	0.97379549
72	0.00131023	0.97510572
73	0.00124471	0.97635043
74	0.00118248	0.97753291
75	0.00112335	0.97865627
76	0.00106719	0.97972345
77	0.00101383	0.98073728
78	0.00096314	0.98170042
79	0.00091498	0.9826154
80	0.00086923	0.98348463
81	0.00082577	0.98431039
82	0.00078448	0.98509487
83	0.00074526	0.98584013
84	0.00070799	0.98654812
85	0.00067259	0.98722072

86	0.00063896	0.98785968
87	0.00060702	0.9884667
88	0.00057667	0.98904336
89	0.00054783	0.9895912
90	0.00052044	0.99011164
91	0.00049442	0.99060605
92	0.0004697	0.99107575
93	0.00044621	0.99152196
94	0.0004239	0.99194587
95	0.00040271	0.99234857
96	0.00038257	0.99273114
97	0.00036344	0.99309459
98	0.00034527	0.99343986
99	0.00032801	0.99376786
100	0.00031161	0.99407947
101	0.00029603	0.9943755
102	0.00028123	0.99465672
103	0.00026716	0.99492389
104	0.00025381	0.99517769
105	0.00024112	0.99541881
106	0.00022906	0.99564787
107	0.00021761	0.99586547
108	0.00020673	0.9960722
109	0.00019639	0.99626859
110	0.00018657	0.99645516
111	0.00017724	0.9966324
112	0.00016838	0.99680078
113	0.00015996	0.99696074
114	0.00015196	0.99711271
115	0.00014436	0.99725707
116	0.00013715	0.99739422
117	0.00013029	0.99752451
118	0.00012377	0.99764828
119	0.00011759	0.99776587
120	0.00011171	0.99787757
121	0.00010612	0.99798369
122	0.00010082	0.99808451
123	0.00009577	0.99818028
124	0.00009099	0.99827127
125	0.00008644	0.99835771
126	0.00008211	0.99843982
127	0.00007801	0.99851783
128	0.00007411	0.99859194
129	0.0000704	0.99866234
130	0.00006688	0.99872922
131	0.00006354	0.99879276
132	0.00006036	0.99885313

133	0.00005734	0.99891047
134	0.00005448	0.99896495
135	0.00005175	0.9990167
136	0.00004917	0.99906586
137	0.00004671	0.99911257
138	0.00004437	0.99915694
139	0.00004215	0.99919909
140	0.00004005	0.99923914
141	0.00003804	0.99927718
142	0.00003614	0.99931332
143	0.00003433	0.99934766
144	0.00003262	0.99938027
145	0.00003099	0.99941126
146	0.00002944	0.9994407
147	0.00002797	0.99946866
148	0.00002657	0.99949523
149	0.00002524	0.99952047
150	0.00002398	0.99954445
151	0.00002278	0.99956722
152	0.00002164	0.99958886
153	0.00002056	0.99960942
154	0.00001953	0.99962895
155	0.00001855	0.9996475
156	0.00001762	0.99966513
157	0.00001674	0.99968187
158	0.00001591	0.99969778
159	0.00001511	0.99971289
160	0.00001436	0.99972724
161	0.00001364	0.99974088
162	0.00001296	0.99975384
163	0.00001231	0.99976614
164	0.00001169	0.99977784
165	0.00001111	0.99978895
166	0.00001055	0.9997995
167	0.00001003	0.99980952
168	0.00000952	0.99981905
169	0.00000905	0.99982809
170	0.0000086	0.99983669
171	0.00000817	0.99984486
172	0.00000776	0.99985261
173	0.00000737	0.99985998
174	0.000007	0.99986698
175	0.00000665	0.99987363
176	0.00000632	0.99987995
177	0.000006	0.99988595
178	0.0000057	0.99989166
179	0.00000542	0.99989707

180	0.00000515	0.99990222
181	0.00000489	0.99990711
182	0.00000464	0.99991175
183	0.00000441	0.99991617
184	0.00000419	0.99992036
185	0.00000398	0.99992434
186	0.00000378	0.99992812
187	0.00000359	0.99993172
188	0.00000341	0.99993513
189	0.00000324	0.99993837
190	0.00000308	0.99994146
191	0.00000293	0.99994438
192	0.00000278	0.99994716
193	0.00000264	0.99994981
194	0.00000251	0.99995232
195	0.00000238	0.9999547
196	0.00000227	0.99995696
197	0.00000215	0.99995912
198	0.00000204	0.99996116
199	0.00000194	0.9999631
200	0.00000184	0.99996495
201	0.00000175	0.9999667
202	0.00000167	0.99996836
203	0.00000158	0.99996995
204	0.0000015	0.99997145
205	0.00000143	0.99997288
206	0.00000136	0.99997423
207	0.00000129	0.99997552
208	0.00000122	0.99997675
209	0.00000116	0.99997791
210	0.0000011	0.99997901
211	0.00000105	0.99998006
212	0.000001	0.99998106
213	9.5e-7	0.99998201
214	9e-7	0.99998291
215	8.5e-7	0.99998376
216	8.1e-7	0.99998457
217	7.7e-7	0.99998534
218	7.3e-7	0.99998608
219	7e-7	0.99998677
220	6.6e-7	0.99998743
221	6.3e-7	0.99998806
222	6e-7	0.99998866
223	5.7e-7	0.99998923
224	5.4e-7	0.99998977
225	5.1e-7	0.99999028
226	4.9e-7	0.99999076

227	4.6e-7	0.99999122
228	4.4e-7	0.99999166
229	4.2e-7	0.99999208
230	4e-7	0.99999248
231	3.8e-7	0.99999285
232	3.6e-7	0.99999321
233	3.4e-7	0.99999355
234	3.2e-7	0.99999387
235	3.1e-7	0.99999418
236	2.9e-7	0.99999447
237	2.8e-7	0.99999475
238	2.6e-7	0.99999501
239	2.5e-7	0.99999526
240	2.4e-7	0.9999955
241	2.3e-7	0.99999572
242	2.1e-7	0.99999593
243	2e-7	0.99999614
244	1.9e-7	0.99999633
245	1.8e-7	0.99999651
246	1.7e-7	0.99999669
247	1.7e-7	0.99999685
248	1.6e-7	0.99999701
249	1.5e-7	0.99999716
250	1.4e-7	0.9999973
251	1.3e-7	0.99999744
252	1.3e-7	0.99999757
253	1.2e-7	0.99999769
254	1.2e-7	0.9999978
255	1.1e-7	0.99999791
256	1e-7	0.99999802
257	1e-7	0.99999812
258	9e-8	0.99999821
259	9e-8	0.9999983
260	8e-8	0.99999839
261	8e-8	0.99999847
262	8e-8	0.99999854
263	7e-8	0.99999862
264	7e-8	0.99999868
265	7e-8	0.99999875
266	6e-8	0.99999881
267	6e-8	0.99999887
268	6e-8	0.99999893
269	5e-8	0.99999898
270	5e-8	0.99999903
271	5e-8	0.99999908
272	5e-8	0.99999913
273	4e-8	0.99999917

274	4e-8	0.99999921
275	4e-8	0.99999925
276	4e-8	0.99999929
277	4e-8	0.99999932
278	3e-8	0.99999936
279	3e-8	0.99999939
280	3e-8	0.99999942
281	3e-8	0.99999945
282	3e-8	0.99999948
283	3e-8	0.9999995
284	2e-8	0.99999953
285	2e-8	0.99999955
286	2e-8	0.99999957
287	2e-8	0.9999996
288	2e-8	0.99999962
289	2e-8	0.99999964
290	2e-8	0.99999965
291	2e-8	0.99999967
292	2e-8	0.99999969
293	2e-8	0.9999997
294	1e-8	0.99999972
295	1e-8	0.99999973
296	1e-8	0.99999975
297	1e-8	0.99999976
298	1e-8	0.99999977
299	1e-8	0.99999978
300	1e-8	0.99999979
301	1e-8	0.9999998
302	1e-8	0.99999981
303	1e-8	0.99999982
304	1e-8	0.99999983
305	1e-8	0.99999984
306	1e-8	0.99999985
307	1e-8	0.99999986
308	1e-8	0.99999986
309	1e-8	0.99999987
310	1e-8	0.99999988
311	1e-8	0.99999988
312	1e-8	0.99999989
313	1e-8	0.99999989
314	1e-8	0.9999999
315	1e-8	0.9999999
316	0	0.99999991
317	0	0.99999991
318	0	0.99999992
319	0	0.99999992
320	0	0.99999993

321	0	0.99999993
322	0	0.99999993
323	0	0.99999994
324	0	0.99999994
325	0	0.99999994
326	0	0.99999995
327	0	0.99999995
328	0	0.99999995
329	0	0.99999995
330	0	0.99999996
331	0	0.99999996
332	0	0.99999996
333	0	0.99999996
334	0	0.99999996
335	0	0.99999997
336	0	0.99999997
337	0	0.99999997
338	0	0.99999997
339	0	0.99999997
340	0	0.99999997
341	0	0.99999997
342	0	0.99999998
343	0	0.99999998
344	0	0.99999998
345	0	0.99999998
346	0	0.99999998
347	0	0.99999998
348	0	0.99999998
349	0	0.99999998
350	0	0.99999998
351	0	0.99999998
352	0	0.99999999
353	0	0.99999999
354	0	0.99999999
355	0	0.99999999
356	0	0.99999999
357	0	0.99999999
358	0	0.99999999
359	0	0.99999999
360	0	0.99999999
361	0	0.99999999
362	0	0.99999999
363	0	0.99999999
364	0	0.99999999
365	0	0.99999999
366	0	0.99999999
367	0	0.99999999

368	0	0.99999999
369	0	0.99999999
370	0	0.99999999
371	0	0.99999999
372	0	0.99999999
373	0	1
...	...	...
G(0.05)		
μ = 20		
σ = 19.494		