

Wahrscheinlichkeitstafel: Geometrische Verteilung G(0.1)

Auf Grundlage der Zufallsvariablen X, die die Anzahl der Versuchswiederholungen eines Bernoulli-Experiments zählt, bis der Treffer T bei Trefferwahrscheinlichkeit $p = 0.1$ auftritt mit $p(X=k)$, $p(X \leq k)$ (kumuliert), Erwartungswert μ , Standardabweichung σ

G(0.1)		
k =	p(X=k) =	p(x≤k) =
1	0.1	0.1
2	0.09	0.19
3	0.081	0.271
4	0.0729	0.3439
5	0.06561	0.40951
6	0.059049	0.468559
7	0.0531441	0.5217031
8	0.04782969	0.56953279
9	0.04304672	0.61257951
10	0.03874205	0.65132156
11	0.03486784	0.6861894
12	0.03138106	0.71757046
13	0.02824295	0.74581342
14	0.02541866	0.77123208
15	0.02287679	0.79410887
16	0.02058911	0.81469798
17	0.0185302	0.83322818
18	0.01667718	0.84990536
19	0.01500946	0.86491483
20	0.01350852	0.87842335
21	0.01215767	0.89058101
22	0.0109419	0.90152291
23	0.00984771	0.91137062
24	0.00886294	0.92023356
25	0.00797664	0.9282102
26	0.00717898	0.93538918
27	0.00646108	0.94185026
28	0.00581497	0.94766524
29	0.00523348	0.95289871
30	0.00471013	0.95760884
31	0.00423912	0.96184796
32	0.0038152	0.96566316
33	0.00343368	0.96909685
34	0.00309032	0.97218716
35	0.00278128	0.97496844
36	0.00250316	0.9774716
37	0.00225284	0.97972444
38	0.00202756	0.981752

39	0.0018248	0.9835768
40	0.00164232	0.98521912
41	0.00147809	0.98669721
42	0.00133028	0.98802748
43	0.00119725	0.98922474
44	0.00107753	0.99030226
45	0.00096977	0.99127204
46	0.0008728	0.99214483
47	0.00078552	0.99293035
48	0.00070697	0.99363731
49	0.00063627	0.99427358
50	0.00057264	0.99484622
51	0.00051538	0.9953616
52	0.00046384	0.99582544
53	0.00041746	0.9962429
54	0.00037571	0.99661861
55	0.00033814	0.99695675
56	0.00030433	0.99726107
57	0.00027389	0.99753497
58	0.0002465	0.99778147
59	0.00022185	0.99800332
60	0.00019967	0.99820299
61	0.0001797	0.99838269
62	0.00016173	0.99854442
63	0.00014556	0.99868998
64	0.000131	0.99882098
65	0.0001179	0.99893888
66	0.00010611	0.999045
67	0.0000955	0.9991405
68	0.00008595	0.99922645
69	0.00007736	0.9993038
70	0.00006962	0.99937342
71	0.00006266	0.99943608
72	0.00005639	0.99949247
73	0.00005075	0.99954322
74	0.00004568	0.9995889
75	0.00004111	0.99963001
76	0.000037	0.99966701
77	0.0000333	0.99970031
78	0.00002997	0.99973028
79	0.00002697	0.99975725
80	0.00002427	0.99978153
81	0.00002185	0.99980337
82	0.00001966	0.99982304
83	0.0000177	0.99984073
84	0.00001593	0.99985666
85	0.00001433	0.99987099

86	0.0000129	0.99988389
87	0.00001161	0.9998955
88	0.00001045	0.99990595
89	0.0000094	0.99991536
90	0.00000846	0.99992382
91	0.00000762	0.99993144
92	0.00000686	0.9999383
93	0.00000617	0.99994447
94	0.00000555	0.99995002
95	0.000005	0.99995502
96	0.0000045	0.99995952
97	0.00000405	0.99996356
98	0.00000364	0.99996721
99	0.00000328	0.99997049
100	0.00000295	0.99997344
101	0.00000266	0.99997609
102	0.00000239	0.99997849
103	0.00000215	0.99998064
104	0.00000194	0.99998257
105	0.00000174	0.99998432
106	0.00000157	0.99998588
107	0.00000141	0.9999873
108	0.00000127	0.99998857
109	0.00000114	0.99998971
110	0.00000103	0.99999074
111	9.3e-7	0.99999166
112	8.3e-7	0.9999925
113	7.5e-7	0.99999325
114	6.8e-7	0.99999392
115	6.1e-7	0.99999453
116	5.5e-7	0.99999508
117	4.9e-7	0.99999557
118	4.4e-7	0.99999601
119	4e-7	0.99999641
120	3.6e-7	0.99999677
121	3.2e-7	0.99999709
122	2.9e-7	0.99999738
123	2.6e-7	0.99999765
124	2.4e-7	0.99999788
125	2.1e-7	0.99999809
126	1.9e-7	0.99999828
127	1.7e-7	0.99999846
128	1.5e-7	0.99999861
129	1.4e-7	0.99999875
130	1.3e-7	0.99999887
131	1.1e-7	0.99999899
132	1e-7	0.99999909

133	9e-8	0.99999918
134	8e-8	0.99999926
135	7e-8	0.99999934
136	7e-8	0.9999994
137	6e-8	0.99999946
138	5e-8	0.99999952
139	5e-8	0.99999956
140	4e-8	0.99999961
141	4e-8	0.99999965
142	4e-8	0.99999968
143	3e-8	0.99999971
144	3e-8	0.99999974
145	3e-8	0.99999977
146	2e-8	0.99999979
147	2e-8	0.99999981
148	2e-8	0.99999983
149	2e-8	0.99999985
150	2e-8	0.99999986
151	1e-8	0.99999988
152	1e-8	0.99999989
153	1e-8	0.9999999
154	1e-8	0.99999991
155	1e-8	0.99999992
156	1e-8	0.99999993
157	1e-8	0.99999993
158	1e-8	0.99999994
159	1e-8	0.99999995
160	1e-8	0.99999995
161	0	0.99999996
162	0	0.99999996
163	0	0.99999997
164	0	0.99999997
165	0	0.99999997
166	0	0.99999997
167	0	0.99999998
168	0	0.99999998
169	0	0.99999998
170	0	0.99999998
171	0	0.99999999
172	0	0.99999999
173	0	0.99999999
174	0	0.99999999
175	0	0.99999999
176	0	0.99999999
177	0	0.99999999
178	0	0.99999999
179	0	0.99999999

180	0	0.99999999
181	0	0.99999999
182	0	1
...
G(0.1)		
$\mu = 10$		
$\sigma = 9.487$		

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