

Wahrscheinlichkeitstafel: Geometrische Verteilung G(0.15)

Auf Grundlage der Zufallsvariablen X, die die Anzahl der Versuchswiederholungen eines Bernoulli-Experiments zählt, bis der Treffer T bei Trefferwahrscheinlichkeit  $p = 0.15$  auftritt mit  $p(X=k)$ ,  $p(X \leq k)$  (kumuliert), Erwartungswert  $\mu$ , Standardabweichung  $\sigma$

G(0.15)		
k =	$p(X=k) =$	$p(x \leq k) =$
1	0.15	0.15
2	0.1275	0.2775
3	0.108375	0.385875
4	0.09211875	0.47799375
5	0.07830094	0.55629469
6	0.0665558	0.62285048
7	0.05657243	0.67942291
8	0.04808656	0.72750947
9	0.04087358	0.76838305
10	0.03474254	0.8031256
11	0.02953116	0.83265676
12	0.02510149	0.85775824
13	0.02133626	0.87909451
14	0.01813582	0.89723033
15	0.01541545	0.91264578
16	0.01310313	0.92574891
17	0.01113766	0.93688658
18	0.00946701	0.94635359
19	0.00804696	0.95440055
20	0.00683992	0.96124047
21	0.00581393	0.9670544
22	0.00494184	0.97199624
23	0.00420056	0.9761968
24	0.00357048	0.97976728
25	0.00303491	0.98280219
26	0.00257967	0.98538186
27	0.00219272	0.98757458
28	0.00186381	0.9894384
29	0.00158424	0.99102264
30	0.0013466	0.99236924
31	0.00114461	0.99351385
32	0.00097292	0.99448678
33	0.00082698	0.99531376
34	0.00070294	0.9960167
35	0.0005975	0.99661419
36	0.00050787	0.99712206
37	0.00043169	0.99755375
38	0.00036694	0.99792069

39	0.0003119	0.99823259
40	0.00026511	0.9984977
41	0.00022535	0.99872304
42	0.00019154	0.99891459
43	0.00016281	0.9990774
44	0.00013839	0.99921579
45	0.00011763	0.99933342
46	0.00009999	0.99943341
47	0.00008499	0.9995184
48	0.00007224	0.99959064
49	0.0000614	0.99965204
50	0.00005219	0.99970424
51	0.00004436	0.9997486
52	0.00003771	0.99978631
53	0.00003205	0.99981836
54	0.00002725	0.99984561
55	0.00002316	0.99986877
56	0.00001968	0.99988845
57	0.00001673	0.99990518
58	0.00001422	0.99991941
59	0.00001209	0.9999315
60	0.00001028	0.99994177
61	0.00000873	0.99995051
62	0.00000742	0.99995793
63	0.00000631	0.99996424
64	0.00000536	0.9999696
65	0.00000456	0.99997416
66	0.00000388	0.99997804
67	0.00000329	0.99998133
68	0.0000028	0.99998413
69	0.00000238	0.99998651
70	0.00000202	0.99998854
71	0.00000172	0.99999026
72	0.00000146	0.99999172
73	0.00000124	0.99999296
74	0.00000106	0.99999402
75	9e-7	0.99999491
76	7.6e-7	0.99999568
77	6.5e-7	0.99999633
78	5.5e-7	0.99999688
79	4.7e-7	0.99999734
80	4e-7	0.99999774
81	3.4e-7	0.99999808
82	2.9e-7	0.99999837
83	2.4e-7	0.99999861
84	2.1e-7	0.99999882
85	1.8e-7	0.999999

86	1.5e-7	0.99999915
87	1.3e-7	0.99999928
88	1.1e-7	0.99999939
89	9e-8	0.99999948
90	8e-8	0.99999956
91	7e-8	0.99999962
92	6e-8	0.99999968
93	5e-8	0.99999973
94	4e-8	0.99999977
95	3e-8	0.9999998
96	3e-8	0.99999983
97	3e-8	0.99999986
98	2e-8	0.99999988
99	2e-8	0.9999999
100	2e-8	0.99999991
101	1e-8	0.99999993
102	1e-8	0.99999994
103	1e-8	0.99999995
104	1e-8	0.99999995
105	1e-8	0.99999996
106	1e-8	0.99999997
107	0	0.99999997
108	0	0.99999998
109	0	0.99999998
110	0	0.99999998
111	0	0.99999999
112	0	0.99999999
113	0	0.99999999
114	0	0.99999999
115	0	0.99999999
116	0	0.99999999
117	0	0.99999999
118	0	1
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<b>G(0.15)</b>		
$\mu = 6.667$		
$\sigma = 6.146$		