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Mathematik > Wahrscheinlichkeitstafeln > Binomialverteilung

Wahrscheinlichkeitstafel: Binomialverteilung B(1, 0.2) bis B(100, 0.2) (Schrittweite 1)

1- bis 99-malig durchgeführtes Bernoulli-Experiment (T = Treffer, N = Nichttreffer) mit Trefferwahrscheinlichkeit p = 0.2, binomialverteilte Zufallsvariable X als Anzahl k des Auftretens von T mit p(X=k), p(X≤k) (kumuliert), Erwartungswert μ, Standardabweichung σ, 1σ-, 2σ-, 3σ-Intervalle

p = 0.2	**n = 1**
k **p(X=k)**	**p(x≤k)**
0 0.8	0.8
1 0.2	1
k **p(X=k)**	**p(x≤k)**
p = 0.2	**n = 1**
Erwartungswert: μ = 0.2	
Standardabweichung: σ = 0.4	
1σ-Intervall: p(0≤X≤0) = 0.8	
2σ-Intervall: p(0≤X≤1) = 1	
3σ-Intervall: p(0≤X≤1) = 1	

p = 0.2	**n = 2**
k **p(X=k)**	**p(x≤k)**
0 0.64	0.64
1 0.32	0.96
2 0.04	1
k **p(X=k)**	**p(x≤k)**
p = 0.2	**n = 2**
Erwartungswert: μ = 0.4	
Standardabweichung: σ = 0.566	
1σ-Intervall: p(0≤X≤0) = 0.64	
2σ-Intervall: p(0≤X≤1) = 0.96	
3σ-Intervall: p(0≤X≤2) = 1	

p = 0.2	**n = 3**
k **p(X=k)**	**p(x≤k)**
0 0.512	0.512
1 0.384	0.896
2 0.096	0.992
3 0.008	1
k **p(X=k)**	**p(x≤k)**

p = 0.2	n = 3
Erwartungswert: μ = 0.6	
Standardabweichung: σ = 0.693	
1σ-Intervall: p(0≤X≤1) = 0.896	
2σ-Intervall: p(0≤X≤1) = 0.896	
3σ-Intervall: p(0≤X≤2) = 0.992	

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p = 0.2		n = 4
k	**p(X=k)**	**p(x≤k)**
0	0.4096	0.4096
1	0.4096	0.8192
2	0.1536	0.9728
3	0.0256	0.9984
4	0.0016	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 4**
Erwartungswert: μ = 0.8		
Standardabweichung: σ = 0.8		
1σ-Intervall: p(0≤X≤1) = 0.8192		
2σ-Intervall: p(0≤X≤2) = 0.9728		
3σ-Intervall: p(0≤X≤3) = 0.9984		

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p = 0.2		n = 5
k	**p(X=k)**	**p(x≤k)**
0	0.32768	0.32768
1	0.4096	0.73728
2	0.2048	0.94208
3	0.0512	0.99328
4	0.0064	0.99968
5	0.00032	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 5**
Erwartungswert: μ = 1		
Standardabweichung: σ = 0.894		
1σ-Intervall: p(1≤X≤1) = 0.4096		
2σ-Intervall: p(0≤X≤2) = 0.94208		

3σ-Intervall: p(0≤X≤3) = 0.99328

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p = 0.2		n = 6
k	**p(X=k)**	**p(x≤k)**
0	0.262144	0.262144
1	0.393216	0.65536
2	0.24576	0.90112
3	0.08192	0.98304
4	0.01536	0.9984
5	0.001536	0.999936
6	0.000064	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 6**
Erwartungswert: μ = 1.2		
Standardabweichung: σ = 0.98		
1σ-Intervall: p(1≤X≤2) = 0.638976		
2σ-Intervall: p(0≤X≤3) = 0.98304		
3σ-Intervall: p(0≤X≤4) = 0.9984		

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p = 0.2		n = 7
k	**p(X=k)**	**p(x≤k)**
0	0.2097152	0.2097152
1	0.3670016	0.5767168
2	0.2752512	0.851968
3	0.114688	0.966656
4	0.028672	0.995328
5	0.0043008	0.9996288
6	0.0003584	0.9999872
7	0.0000128	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 7**
Erwartungswert: μ = 1.4		
Standardabweichung: σ = 1.058		
1σ-Intervall: p(1≤X≤2) = 0.6422528		
2σ-Intervall: p(0≤X≤3) = 0.966656		
3σ-Intervall: p(0≤X≤4) = 0.995328		

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p = 0.2		n = 8
k	**p(X=k)**	**p(x≤k)**
0	0.16777216	0.16777216
1	0.33554432	0.50331648
2	0.29360128	0.79691776
3	0.14680064	0.9437184
4	0.0458752	0.9895936
5	0.00917504	0.99876864
6	0.00114688	0.99991552
7	0.00008192	0.99999744
8	0.00000256	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 8**

Erwartungswert:
μ = 1.6

Standardabweichung:
σ = 1.131

1σ-Intervall:
p(1≤X≤2) = 0.6291456

2σ-Intervall:
p(0≤X≤3) = 0.9437184

3σ-Intervall:
p(0≤X≤4) = 0.9895936

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p = 0.2		n = 9
k	**p(X=k)**	**p(x≤k)**
0	0.13421773	0.13421773
1	0.30198989	0.43620762
2	0.30198989	0.7381975
3	0.17616077	0.91435827
4	0.06606029	0.98041856
5	0.01651507	0.99693363
6	0.00275251	0.99968614
7	0.00029491	0.99998106
8	0.00001843	0.99999949
9	5.1e-7	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 9**

Erwartungswert:
μ = 1.8

Standardabweichung:
σ = 1.2

1σ-Intervall:
p(1≤X≤3) = 0.78014054

2σ-Intervall:
p(0≤X≤4) = 0.98041856

3σ-Intervall:
p(0≤X≤5) = 0.99693363

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p = 0.2		n = 10
k	**p(X=k)**	**p(x≤k)**
0	0.10737418	0.10737418
1	0.26843546	0.37580964
2	0.30198989	0.67779953
3	0.20132659	0.87912612
4	0.08808038	0.9672065
5	0.02642412	0.99363062
6	0.00550502	0.99913564
7	0.00078643	0.99992207
8	0.00007373	0.9999958
9	0.0000041	0.9999999
10	1e-7	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 10**

Erwartungswert:
$\mu = 2$

Standardabweichung:
$\sigma = 1.265$

1σ-Intervall:
$p(1 \le X \le 3) = 0.77175194$

2σ-Intervall:
$p(0 \le X \le 4) = 0.9672065$

3σ-Intervall:
$p(0 \le X \le 5) = 0.99363062$

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p = 0.2		n = 11
k	**p(X=k)**	**p(x≤k)**
0	0.08589935	0.08589935
1	0.2362232	0.32212255
2	0.295279	0.61740155
3	0.22145925	0.8388608
4	0.11072963	0.94959043
5	0.03875537	0.98834579
6	0.00968884	0.99803464
7	0.00173015	0.99976479
8	0.00021627	0.99998106
9	0.00001802	0.99999908
10	9e-7	0.99999998
11	2e-8	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 11**

Erwartungswert:
$\mu = 2.2$

Standardabweichung:
$\sigma = 1.327$

1σ-Intervall:
$p(1 \le X \le 3) = 0.75296145$

2σ-Intervall:
$p(0 \le X \le 4) = 0.94959043$

3σ-Intervall: p(0≤X≤6) = 0.99803464

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p = 0.2		n = 12
k	**p(X=k)**	**p(x≤k)**
0	0.06871948	0.06871948
1	0.20615843	0.27487791
2	0.28346784	0.55834575
3	0.2362232	0.79456895
4	0.13287555	0.9274445
5	0.05315022	0.98059472
6	0.01550215	0.99609687
7	0.00332189	0.99941876
8	0.00051905	0.9999378
9	0.00005767	0.99999547
10	0.00000433	0.9999998
11	2e-7	1
12	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 12**
Erwartungswert: μ = 2.4		
Standardabweichung: σ = 1.386		
1σ-Intervall: p(2≤X≤3) = 0.51969104		
2σ-Intervall: p(0≤X≤5) = 0.98059472		
3σ-Intervall: p(0≤X≤6) = 0.99609687		

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p = 0.2		n = 13
k	**p(X=k)**	**p(x≤k)**
0	0.05497558	0.05497558
1	0.17867064	0.23364622
2	0.26800596	0.50165218
3	0.24567213	0.74732431
4	0.15354508	0.90086939
5	0.06909529	0.96996468
6	0.02303176	0.99299644
7	0.00575794	0.99875438
8	0.00107961	0.99983399
9	0.00014995	0.99998394
10	0.00001499	0.99999893
11	0.00000102	0.99999996
12	4e-8	1
13	0	1
k	**p(X=k)**	**p(x≤k)**

p = 0.2	n = 13
Erwartungswert: μ = 2.6	
Standardabweichung: σ = 1.442	
1σ-Intervall: p(2≤X≤4) = 0.66722317	
2σ-Intervall: p(0≤X≤5) = 0.96996468	
3σ-Intervall: p(0≤X≤6) = 0.99299644	

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p = 0.2		n = 14
k	**p(X=k)**	**p(x≤k)**
0	0.04398047	0.04398047
1	0.15393163	0.19791209
2	0.2501389	0.44805099
3	0.2501389	0.69818988
4	0.17197049	0.87016037
5	0.08598525	0.95614562
6	0.03224447	0.98839009
7	0.0092127	0.99760279
8	0.00201528	0.99961807
9	0.00033588	0.99995395
10	0.00004198	0.99999594
11	0.00000382	0.99999975
12	2.4e-7	0.99999999
13	1e-8	1
14	0	1
k	**p(X=k)**	**p(x≤k)**

p = 0.2	n = 14
Erwartungswert: μ = 2.8	
Standardabweichung: σ = 1.497	
1σ-Intervall: p(2≤X≤4) = 0.67224828	
2σ-Intervall: p(0≤X≤5) = 0.95614562	
3σ-Intervall: p(0≤X≤7) = 0.99760279	

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p = 0.2		n = 15
k	**p(X=k)**	**p(x≤k)**
0	0.03518437	0.03518437
1	0.1319414	0.16712577
2	0.23089744	0.39802321
3	0.2501389	0.6481621
4	0.18760417	0.83576628

5	0.10318229	0.93894857
6	0.04299262	0.98194119
7	0.01381906	0.99576025
8	0.00345476	0.99921501
9	0.00067176	0.99988677
10	0.00010076	0.99998754
11	0.00001145	0.99999899
12	9.5e-7	0.99999994
13	6e-8	1
14	0	1
15	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 15**
Erwartungswert: μ = 3		
Standardabweichung: σ = 1.549		
1σ-Intervall: p(2≤X≤4) = 0.66864051		
2σ-Intervall: p(0≤X≤6) = 0.98194119		
3σ-Intervall: p(0≤X≤7) = 0.99576025		

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p = 0.2		**n = 16**
k	**p(X=k)**	**p(x≤k)**
0	0.0281475	0.0281475
1	0.11258999	0.14073749
2	0.21110623	0.35184372
3	0.2462906	0.59813433
4	0.20011112	0.79824544
5	0.12006667	0.91831211
6	0.05503056	0.97334267
7	0.01965377	0.99299644
8	0.00552762	0.99852406
9	0.00122836	0.99975242
10	0.00021496	0.99996739
11	0.00002931	0.9999967
12	0.00000305	0.99999975
13	2.3e-7	0.99999999
14	1e-8	1
15	0	1
16	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 16**
Erwartungswert: μ = 3.2		
Standardabweichung: σ = 1.6		

1σ-Intervall: p(2≤X≤4) = 0.65750795
2σ-Intervall: p(0≤X≤6) = 0.97334267
3σ-Intervall: p(0≤X≤8) = 0.99852406

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p = 0.2		n = 17
k	**p(X=k)**	**p(x≤k)**
0	0.022518	0.022518
1	0.09570149	0.11821949
2	0.19140298	0.30962247
3	0.23925373	0.5488762
4	0.20934701	0.75822322
5	0.13607556	0.89429878
6	0.06803778	0.96233656
7	0.02672913	0.98906568
8	0.00835285	0.99741854
9	0.00208821	0.99950675
10	0.00041764	0.99992439
11	0.00006644	0.99999084
12	0.00000831	0.99999914
13	8e-7	0.99999994
14	6e-8	1
15	0	1
16	0	1
17	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 17**

Erwartungswert: μ = 3.4
Standardabweichung: σ = 1.649
1σ-Intervall: p(2≤X≤5) = 0.77607929
2σ-Intervall: p(1≤X≤6) = 0.93981856
3σ-Intervall: p(0≤X≤8) = 0.99741854

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p = 0.2		n = 18
k	**p(X=k)**	**p(x≤k)**
0	0.0180144	0.0180144
1	0.08106479	0.09907919
2	0.17226269	0.27134188
3	0.22968358	0.50102546
4	0.21532836	0.71635382
5	0.15072985	0.86708367

6	0.08164534	0.948729
7	0.03499086	0.98371986
8	0.01202811	0.99574797
9	0.00334114	0.99908911
10	0.00075176	0.99984086
11	0.00013668	0.99997755
12	0.00001993	0.99999748
13	0.0000023	0.99999978
14	2.1e-7	0.99999999
15	1e-8	1
16	0	1
17	0	1
18	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 18**

Erwartungswert:
μ = 3.6

Standardabweichung:
σ = 1.697

1σ-Intervall:
p(2≤X≤5) = 0.76800447

2σ-Intervall:
p(1≤X≤6) = 0.9307146

3σ-Intervall:
p(0≤X≤8) = 0.99574797

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p = 0.2		**n = 19**
k	**p(X=k)**	**p(x≤k)**
0	0.01441152	0.01441152
1	0.06845471	0.08286623
2	0.15402311	0.23688934
3	0.2181994	0.45508874
4	0.2181994	0.67328814
5	0.16364955	0.8369377
6	0.09546224	0.93239993
7	0.04432175	0.97672169
8	0.01662066	0.99334235
9	0.00507853	0.99842088
10	0.00126963	0.99969051
11	0.0002597	0.99995021
12	0.00004328	0.99999349
13	0.00000583	0.99999932
14	6.2e-7	0.99999994
15	5e-8	1
16	0	1
17	0	1
18	0	1
19	0	1

k	p(X=k)	p(x≤k)
	p = 0.2	n = 19

Erwartungswert:
μ = 3.8

Standardabweichung:
σ = 1.744

1σ-Intervall:
p(3≤X≤5) = 0.60004836

2σ-Intervall:
p(1≤X≤7) = 0.96231017

3σ-Intervall:
p(0≤X≤9) = 0.99842088

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	p = 0.2	n = 20
k	**p(X=k)**	**p(x≤k)**
0	0.01152922	0.01152922
1	0.05764608	0.06917529
2	0.13690943	0.20608472
3	0.20536414	0.41144886
4	0.2181994	0.62964826
5	0.17455952	0.80420779
6	0.1090997	0.91330749
7	0.05454985	0.96785734
8	0.02216088	0.99001821
9	0.00738696	0.99740517
10	0.00203141	0.99943659
11	0.00046168	0.99989827
12	0.00008657	0.99998484
13	0.00001332	0.99999815
14	0.00000166	0.99999982
15	1.7e-7	0.99999999
16	1e-8	1
17	0	1
18	0	1
19	0	1
20	0	1
k	**p(X=k)**	**p(x≤k)**
	p = 0.2	n = 20

Erwartungswert:
μ = 4

Standardabweichung:
σ = 1.789

1σ-Intervall:
p(3≤X≤5) = 0.59812307

2σ-Intervall:
p(1≤X≤7) = 0.95632812

3σ-Intervall:
p(0≤X≤9) = 0.99740517

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p = 0.2		n = 21
k	**p(X=k)**	**p(x≤k)**
0	0.00922337	0.00922337
1	0.0484227	0.05764608
2	0.12105676	0.17870283
3	0.1916732	0.37037603
4	0.21563235	0.58600838
5	0.1832875	0.76929588
6	0.12219167	0.89148755
7	0.06545982	0.95694737
8	0.02863867	0.98558604
9	0.01034174	0.99592778
10	0.00310252	0.9990303
11	0.00077563	0.99980593
12	0.00016159	0.99996752
13	0.00002797	0.99999549
14	0.000004	0.99999949
15	4.7e-7	0.99999995
16	4e-8	1
17	0	1
18	0	1
19	0	1
20	0	1
21	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 21**
Erwartungswert: $\mu = 4.2$		
Standardabweichung: $\sigma = 1.833$		
1σ-Intervall: $p(3 \le X \le 6) = 0.71278471$		
2σ-Intervall: $p(1 \le X \le 7) = 0.94772399$		
3σ-Intervall: $p(0 \le X \le 9) = 0.99592778$		

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p = 0.2		n = 22
k	**p(X=k)**	**p(x≤k)**
0	0.0073787	0.0073787
1	0.04058284	0.04796153
2	0.10652995	0.15449148
3	0.17754991	0.33204139
4	0.21084052	0.54288191
5	0.18975647	0.73263838
6	0.13441083	0.86704921
7	0.07680619	0.9438554
8	0.0360029	0.9798583

9	0.01400113	0.99385943
10	0.00455037	0.9984098
11	0.00124101	0.99965081
12	0.0002844	0.99993521
13	0.00005469	0.9999899
14	0.00000879	0.99999869
15	0.00000117	0.99999986
16	1.3e-7	0.99999999
17	1e-8	1
18	0	1
19	0	1
20	0	1
21	0	1
22	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 22**

Erwartungswert:
μ = 4.4

Standardabweichung:
σ = 1.876

1σ-Intervall:
p(3≤X≤6) = 0.71255773

2σ-Intervall:
p(1≤X≤8) = 0.97247961

3σ-Intervall:
p(0≤X≤10) = 0.9984098

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p = 0.2		**n = 23**
k	**p(X=k)**	**p(x≤k)**
0	0.00590296	0.00590296
1	0.03394201	0.03984497
2	0.09334053	0.13318549
3	0.16334592	0.29653141
4	0.2041824	0.50071381
5	0.19397328	0.69468709
6	0.14547996	0.84016705
7	0.08832712	0.92849416
8	0.04416356	0.97265772
9	0.01840148	0.99105921
10	0.00644052	0.99749973
11	0.00190288	0.99940261
12	0.00047572	0.99987833
13	0.00010063	0.99997896
14	0.00001797	0.99999693
15	0.0000027	0.99999963
16	3.4e-7	0.99999996
17	3e-8	1
18	0	1

19	0	1
20	0	1
21	0	1
22	0	1
23	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 23**

Erwartungswert:
μ = 4.6

Standardabweichung:
σ = 1.918

1σ-Intervall:
p(3≤X≤6) = 0.70698155

2σ-Intervall:
p(1≤X≤8) = 0.96675477

3σ-Intervall:
p(0≤X≤10) = 0.99749973

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p = 0.2		**n = 24**
k	**p(X=k)**	**p(x≤k)**
0	0.00472237	0.00472237
1	0.0283342	0.03305657
2	0.08146082	0.11451739
3	0.14934484	0.26386223
4	0.1960151	0.45987733
5	0.1960151	0.65589243
6	0.15517862	0.81107106
7	0.09975769	0.91082874
8	0.05299627	0.96382501
9	0.0235539	0.98737891
10	0.00883271	0.99621162
11	0.00281041	0.99902203
12	0.00076115	0.99978318
13	0.00017565	0.99995883
14	0.0000345	0.99999334
15	0.00000575	0.99999909
16	8.1e-7	0.99999989
17	1e-7	0.99999999
18	1e-8	1
19	0	1
20	0	1
21	0	1
22	0	1
23	0	1
24	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 24**

Erwartungswert:
μ = 4.8

Standardabweichung: $\sigma = 1.96$
1σ-Intervall: $p(3 \le X \le 6) = 0.69655367$
2σ-Intervall: $p(1 \le X \le 8) = 0.95910265$
3σ-Intervall: $p(0 \le X \le 10) = 0.99621162$

---

p = 0.2		n = 25
k	**p(X=k)**	**p(x≤k)**
0	0.00377789	0.00377789
1	0.02361183	0.02738973
2	0.0708355	0.09822522
3	0.13576804	0.23399326
4	0.18668105	0.42067431
5	0.1960151	0.61668941
6	0.16334592	0.78003533
7	0.11084187	0.8908772
8	0.06234855	0.95322576
9	0.02944237	0.98266813
10	0.01177695	0.99444508
11	0.00401487	0.99845995
12	0.001171	0.99963095
13	0.00029275	0.9999237
14	0.00006273	0.99998644
15	0.0000115	0.99999794
16	0.0000018	0.99999973
17	2.4e-7	0.99999997
18	3e-8	1
19	0	1
20	0	1
21	0	1
22	0	1
23	0	1
24	0	1
25	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 25**

Erwartungswert: $\mu = 5$
Standardabweichung: $\sigma = 2$
1σ-Intervall: $p(3 \le X \le 7) = 0.79265198$
2σ-Intervall: $p(1 \le X \le 9) = 0.97889024$
3σ-Intervall: $p(0 \le X \le 11) = 0.99845995$

---

p = 0.2		n = 26
k	**p(X=k)**	**p(x≤k)**
0	0.00302231	0.00302231
1	0.01964504	0.02266736
2	0.06139076	0.08405812
3	0.12278153	0.20683965
4	0.17649845	0.3833381
5	0.19414829	0.57748639
6	0.16987976	0.74736615
7	0.12134268	0.86870883
8	0.07204722	0.94075605
9	0.03602361	0.97677966
10	0.01531003	0.99208969
11	0.00556729	0.99765697
12	0.00173978	0.99939675
13	0.0004684	0.99986515
14	0.00010874	0.99997389
15	0.00002175	0.99999564
16	0.00000374	0.99999937
17	5.5e-7	0.99999992
18	7e-8	0.99999999
19	1e-8	1
20	0	1
21	0	1
22	0	1
23	0	1
24	0	1
25	0	1
26	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 26**
Erwartungswert: $\mu = 5.2$		
Standardabweichung: $\sigma = 2.04$		
1σ-Intervall: $p(4 \le X \le 7) = 0.66186918$		
2σ-Intervall: $p(2 \le X \le 9) = 0.9541123$		
3σ-Intervall: $p(0 \le X \le 11) = 0.99765697$		

---

p = 0.2		n = 27
k	**p(X=k)**	**p(x≤k)**
0	0.00241785	0.00241785
1	0.0163205	0.01873835
2	0.05304162	0.07177997
3	0.11050338	0.18228335

4	0.16575506	0.34803841
5	0.19061832	0.53865673
6	0.17473346	0.7133902
7	0.1310501	0.84444029
8	0.08190631	0.9263466
9	0.04322833	0.96957493
10	0.01945275	0.98902768
11	0.00751583	0.99654352
12	0.00250528	0.9990488
13	0.00072268	0.99977147
14	0.00018067	0.99995214
15	0.00003914	0.99999129
16	0.00000734	0.99999863
17	0.00000119	0.99999981
18	1.6e-7	0.99999998
19	2e-8	1
20	0	1
21	0	1
22	0	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 27**

Erwartungswert:
μ = 5.4

Standardabweichung:
σ = 2.078

1σ-Intervall:
p(4≤X≤7) = 0.66215695

2σ-Intervall:
p(2≤X≤9) = 0.95083658

3σ-Intervall:
p(0≤X≤11) = 0.99654352

---

p = 0.2		**n = 28**
k	**p(X=k)**	**p(x≤k)**
0	0.00193428	0.00193428
1	0.01353997	0.01547425
2	0.0456974	0.06117165
3	0.09901102	0.16018267
4	0.15470473	0.3148874
5	0.18564567	0.50053307
6	0.17791043	0.6784435
7	0.13978677	0.81823027
8	0.09173507	0.90996534

9	0.05096393	0.96092927
10	0.02420787	0.98513713
11	0.00990322	0.99504035
12	0.00350739	0.99854774
13	0.0010792	0.99962694
14	0.00028907	0.99991601
15	0.00006745	0.99998346
16	0.0000137	0.99999716
17	0.00000242	0.99999958
18	3.7e-7	0.99999995
19	5e-8	0.99999999
20	1e-8	1
21	0	1
22	0	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 28**

Erwartungswert:
μ = 5.6

Standardabweichung:
σ = 2.117

1σ-Intervall:
p(4≤X≤7) = 0.6580476

2σ-Intervall:
p(2≤X≤9) = 0.94545502

3σ-Intervall:
p(0≤X≤11) = 0.99504035

---

p = 0.2		**n = 29**
k	**p(X=k)**	**p(x≤k)**
0	0.00154743	0.00154743
1	0.01121883	0.01276626
2	0.03926591	0.05203217
3	0.0883483	0.14038047
4	0.14356599	0.28394645
5	0.17945748	0.46340393
6	0.17945748	0.64286142
7	0.1474115	0.79027292
8	0.10134541	0.89161833
9	0.05911815	0.95073648
10	0.02955908	0.98029556
11	0.01276415	0.99305971
12	0.00478656	0.99784626

13	0.00156484	0.9994111
14	0.0004471	0.99985819
15	0.00011177	0.99996997
16	0.00002445	0.99999442
17	0.00000467	0.99999909
18	7.8e-7	0.99999987
19	1.1e-7	0.99999998
20	1e-8	1
21	0	1
22	0	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 29**
Erwartungswert: μ = 5.8		
Standardabweichung: σ = 2.154		
1σ-Intervall: p(4≤X≤7) = 0.64989245		
2σ-Intervall: p(2≤X≤10) = 0.9675293		
3σ-Intervall: p(0≤X≤12) = 0.99784626		

---

p = 0.2		**n = 30**
k	**p(X=k)**	**p(x≤k)**
0	0.00123794	0.00123794
1	0.00928455	0.01052249
2	0.03365649	0.04417899
3	0.07853182	0.12271081
4	0.13252245	0.25523325
5	0.17227918	0.42751244
6	0.17945748	0.60696992
7	0.1538207	0.76079062
8	0.11055863	0.87134925
9	0.06756361	0.93891285
10	0.03547089	0.97438374
11	0.01612313	0.99050688
12	0.00638207	0.99688895
13	0.00220918	0.99909813
14	0.00067064	0.99976877
15	0.00017884	0.99994761

16	0.00004192	0.99998953
17	0.00000863	0.99999816
18	0.00000156	0.99999972
19	2.5e-7	0.99999996
20	3e-8	1
21	0	1
22	0	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 30**

Erwartungswert:
μ = 6

Standardabweichung:
σ = 2.191

1σ-Intervall:
p(4≤X≤8) = 0.74863844

2σ-Intervall:
p(2≤X≤10) = 0.96386125

3σ-Intervall:
p(0≤X≤12) = 0.99688895

---

p = 0.2		**n = 31**
k	**p(X=k)**	**p(x≤k)**
0	0.00099035	0.00099035
1	0.00767523	0.00866558
2	0.02878211	0.03744769
3	0.06955676	0.10700444
4	0.12172432	0.22872877
5	0.16432784	0.3930566
6	0.17802182	0.57107842
7	0.15894806	0.73002648
8	0.11921104	0.84923752
9	0.07616261	0.92540013
10	0.04188944	0.96728957
11	0.01999269	0.98728225
12	0.00833029	0.99561254
13	0.00304376	0.99865629
14	0.00097835	0.99963465
15	0.0002772	0.99991185
16	0.0000693	0.99998114
17	0.00001529	0.99999643

18	0.00000297	0.9999994
19	5.1e-7	0.99999991
20	8e-8	0.99999999
21	1e-8	1
22	0	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 31**

Erwartungswert:
μ = 6.2

Standardabweichung:
σ = 2.227

1σ-Intervall:
p(4≤X≤8) = 0.74223308

2σ-Intervall:
p(2≤X≤10) = 0.95862399

3σ-Intervall:
p(0≤X≤12) = 0.99561254

---

p = 0.2		**n = 32**
k	**p(X=k)**	**p(x≤k)**
0	0.00079228	0.00079228
1	0.00633825	0.00713053
2	0.02456073	0.03169127
3	0.06140183	0.09309309
4	0.11129081	0.2043839
5	0.15580713	0.36019103
6	0.17528303	0.53547406
7	0.16276281	0.69823687
8	0.12715844	0.82539531
9	0.0847723	0.91016761
10	0.04874407	0.95891168
11	0.02437204	0.98328371
12	0.01066277	0.99394648
13	0.00410106	0.99804754
14	0.00139143	0.99943898
15	0.00041743	0.99985641
16	0.00011088	0.99996728
17	0.00002609	0.99999337
18	0.00000544	0.99999881

19	0.000001	0.99999981
20	1.6e-7	0.99999997
21	2e-8	1
22	0	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 32**

Erwartungswert:
μ = 6.4

Standardabweichung:
σ = 2.263

1σ-Intervall:
p(5≤X≤8) = 0.62101141

2σ-Intervall:
p(2≤X≤10) = 0.95178114

3σ-Intervall:
p(0≤X≤13) = 0.99804754

---

p = 0.2		**n = 33**
k	**p(X=k)**	**p(x≤k)**
0	0.00063383	0.00063383
1	0.00522906	0.00586288
2	0.02091623	0.02677912
3	0.05403361	0.08081273
4	0.10131301	0.18212574
5	0.14690387	0.32902961
6	0.17138785	0.50041745
7	0.16526685	0.66568431
8	0.13427932	0.79996362
9	0.09324953	0.89321315
10	0.05594972	0.94916286
11	0.02924644	0.97840931
12	0.01340462	0.99181393
13	0.0054134	0.99722733
14	0.00193336	0.99916069
15	0.00061223	0.99977292
16	0.00017219	0.99994511
17	0.00004305	0.99998816
18	0.00000957	0.99999772

19	0.00000189	0.99999961
20	3.3e-7	0.99999994
21	5e-8	0.99999999
22	1e-8	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 33**

Erwartungswert:
μ = 6.6

Standardabweichung:
σ = 2.298

1σ-Intervall:
p(5≤X≤8) = 0.61783788

2σ-Intervall:
p(3≤X≤11) = 0.95163019

3σ-Intervall:
p(0≤X≤13) = 0.99722733

---

p = 0.2		**n = 34**
k	**p(X=k)**	**p(x≤k)**
0	0.00050706	0.00050706
1	0.00431001	0.00481707
2	0.0177788	0.02259587
3	0.04741013	0.070006
4	0.09185713	0.16186314
5	0.1377857	0.29964883
6	0.16649105	0.46613988
7	0.16649105	0.63263094
8	0.14047682	0.77310776
9	0.10145548	0.87456324
10	0.06340968	0.93797292
11	0.0345871	0.97256002
12	0.01657298	0.989133
13	0.00701165	0.99614465
14	0.00262937	0.99877402
15	0.00087646	0.99965047
16	0.0002602	0.99991067
17	0.00006888	0.99997955

18	0.00001626	0.99999581
19	0.00000342	0.99999923
20	6.4e-7	0.99999987
21	1.1e-7	0.99999998
22	2e-8	1
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 34**

Erwartungswert:
μ = 6.8

Standardabweichung:
σ = 2.332

1σ-Intervall:
p(5≤X≤9) = 0.71270011

2σ-Intervall:
p(3≤X≤11) = 0.94996415

3σ-Intervall:
p(0≤X≤13) = 0.99614465

---

p = 0.2		**n = 35**
k	**p(X=k)**	**p(x≤k)**
0	0.00040565	0.00040565
1	0.00354942	0.00395507
2	0.01508504	0.01904011
3	0.04148387	0.06052398
4	0.08296773	0.14349171
5	0.12859998	0.27209169
6	0.16074998	0.43284167
7	0.16649105	0.59933273
8	0.14567967	0.7450124
9	0.10925975	0.85427215
10	0.07101884	0.92529099
11	0.04035161	0.9656426
12	0.02017581	0.98581841
13	0.00892391	0.99474232
14	0.00350582	0.99824814
15	0.00122704	0.99947518

16	0.00038345	0.99985863
17	0.00010714	0.99996577
18	0.00002679	0.99999256
19	0.00000599	0.99999855
20	0.0000012	0.99999975
21	2.1e-7	0.99999996
22	3e-8	0.99999999
23	0	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 35**

Erwartungswert:
$\mu = 7$

Standardabweichung:
$\sigma = 2.366$

1σ-Intervall:
$p(5 \le X \le 9) = 0.71078044$

2σ-Intervall:
$p(3 \le X \le 11) = 0.94660249$

3σ-Intervall:
$p(0 \le X \le 14) = 0.99824814$

---

p = 0.2		**n = 36**
k	**p(X=k)**	**p(x≤k)**
0	0.00032452	0.00032452
1	0.00292067	0.00324519
2	0.01277792	0.0160231
3	0.0362041	0.0522272
4	0.07467096	0.12689816
5	0.11947353	0.2463717
6	0.15431998	0.40069168
7	0.16534284	0.56603452
8	0.14984195	0.71587646
9	0.11654374	0.8324202
10	0.07866702	0.91108722
11	0.04648506	0.95757228
12	0.02421097	0.98178324

13	0.01117429	0.99295754
14	0.00458944	0.99754698
15	0.0016828	0.99922977
16	0.00055217	0.99978194
17	0.0001624	0.99994434
18	0.00004286	0.9999872
19	0.00001015	0.99999735
20	0.00000216	0.99999951
21	4.1e-7	0.99999992
22	7e-8	0.99999999
23	1e-8	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 36**

Erwartungswert:
μ = 7.2

Standardabweichung:
σ = 2.4

1σ-Intervall:
p(5≤X≤9) = 0.70552203

2σ-Intervall:
p(3≤X≤12) = 0.96576014

3σ-Intervall:
p(0≤X≤14) = 0.99754698

---

p = 0.2		**n = 37**
k	**p(X=k)**	**p(x≤k)**
0	0.00025961	0.00025961
1	0.00240144	0.00266105
2	0.01080647	0.01346752
3	0.03151886	0.04498638
4	0.06697759	0.11196397
5	0.11051302	0.22247699
6	0.14735069	0.36982768
7	0.16313827	0.53296595
8	0.15294212	0.68590807

9	0.12320338	0.80911145
10	0.08624236	0.89535381
11	0.05292145	0.94827527
12	0.02866579	0.97694105
13	0.01378163	0.99072268
14	0.00590641	0.99662909
15	0.00226412	0.99889322
16	0.00077829	0.99967151
17	0.00024036	0.99991186
18	0.00006677	0.99997863
19	0.00001669	0.99999532
20	0.00000376	0.99999908
21	7.6e-7	0.99999984
22	1.4e-7	0.99999997
23	2e-8	1
24	0	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 37**
Erwartungswert: $\mu = 7.4$		
Standardabweichung: $\sigma = 2.433$		
1σ-Intervall: $p(5 \le X \le 9) = 0.69714748$		
2σ-Intervall: $p(3 \le X \le 12) = 0.96347353$		
3σ-Intervall: $p(1 \le X \le 14) = 0.99636948$		

---

p = 0.2		**n = 38**
k	**p(X=k)**	**p(x≤k)**
0	0.00020769	0.00020769
1	0.00197307	0.00218076
2	0.00912546	0.01130623
3	0.02737639	0.03868261

4	0.05988584	0.09856845
5	0.10180593	0.20037439
6	0.13998316	0.34035754
7	0.15998075	0.50033829
8	0.15498135	0.65531965
9	0.12915113	0.78447077
10	0.09363457	0.87810534
11	0.05958563	0.93769097
12	0.03351692	0.97120789
13	0.01675846	0.98796635
14	0.00748146	0.99544781
15	0.00299258	0.99844039
16	0.00107546	0.99951585
17	0.00034794	0.99986379
18	0.00010148	0.99996528
19	0.00002671	0.99999198
20	0.00000634	0.99999832
21	0.00000136	0.99999968
22	2.6e-7	0.99999995
23	5e-8	0.99999999
24	1e-8	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 38**
Erwartungswert: $\mu = 7.6$		
Standardabweichung: $\sigma = 2.466$		
1σ-Intervall: $p(6 \le X \le 10) = 0.67773095$		
2σ-Intervall: $p(3 \le X \le 12) = 0.95990167$		
3σ-Intervall: $p(1 \le X \le 14) = 0.99524012$		

p = 0.2		n = 39
k	**p(X=k)**	**p(x≤k)**
0	0.00016615	0.00016615
1	0.00162	0.00178615
2	0.00769498	0.00948113
3	0.0237262	0.03320733
4	0.05338395	0.08659129
5	0.09342191	0.1800132
6	0.13234771	0.31236091
7	0.15598123	0.46834214
8	0.15598123	0.62432338
9	0.13431717	0.75864055
10	0.10073788	0.85937843
11	0.06639542	0.92577385
12	0.03873066	0.96450451
13	0.02011015	0.98461466
14	0.00933686	0.99395152
15	0.00389036	0.99784187
16	0.00145888	0.99930076
17	0.00049345	0.9997942
18	0.00015078	0.99994498
19	0.00004166	0.99998664
20	0.00001042	0.99999706
21	0.00000236	0.99999941
22	4.8e-7	0.99999989
23	9e-8	0.99999998
24	1e-8	1
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 39**
Erwartungswert: $\mu = 7.8$		
Standardabweichung: $\sigma = 2.498$		

1σ-Intervall: p(6≤X≤10) = 0.67936523
2σ-Intervall: p(3≤X≤12) = 0.95502338
3σ-Intervall: p(1≤X≤15) = 0.99767572

---

p = 0.2		**n = 40**
k	**p(X=k)**	**p(x≤k)**
0	0.00013292	0.00013292
1	0.00132923	0.00146215
2	0.00647999	0.00794214
3	0.02051996	0.02846209
4	0.0474524	0.0759145
5	0.08541432	0.16132882
6	0.12456255	0.28589137
7	0.15125453	0.4371459
8	0.15598123	0.59312713
9	0.13864998	0.73177711
10	0.10745374	0.83923085
11	0.07326391	0.91249476
12	0.04426361	0.95675838
13	0.02383425	0.98059263
14	0.01149152	0.99208415
15	0.00497966	0.9970638
16	0.00194518	0.99900898
17	0.00068653	0.99969551
18	0.00021931	0.99991482
19	0.00006348	0.99997831
20	0.00001666	0.99999497
21	0.00000397	0.99999894
22	8.6e-7	0.9999998
23	1.7e-7	0.99999996
24	3e-8	0.99999999
25	0	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1

38	0	1
39	0	1
40	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 40**

Erwartungswert:
μ = 8

Standardabweichung:
σ = 2.53

1σ-Intervall:
p(6≤X≤10) = 0.67790203

2σ-Intervall:
p(3≤X≤13) = 0.97265049

3σ-Intervall:
p(1≤X≤15) = 0.99693088

---

p = 0.2		**n = 41**
k	**p(X=k)**	**p(x≤k)**
0	0.00010634	0.00010634
1	0.00108997	0.00119631
2	0.00544983	0.00664614
3	0.01771196	0.0243581
4	0.04206591	0.06642402
5	0.07782194	0.14424595
6	0.11673291	0.26097886
7	0.14591613	0.40689499
8	0.15503589	0.56193088
9	0.14211623	0.70404712
10	0.11369299	0.8177401
11	0.08010188	0.89784198
12	0.05006367	0.94790565
13	0.02792013	0.97582578
14	0.01396006	0.98978584
15	0.00628203	0.99606787
16	0.00255207	0.99861995
17	0.00093826	0.99955821
18	0.00031275	0.99987096
19	0.00009465	0.99996561
20	0.00002603	0.99999164
21	0.00000651	0.99999815
22	0.00000148	0.99999963
23	3.1e-7	0.99999993
24	6e-8	0.99999999
25	1e-8	1
26	0	1
27	0	1
28	0	1
29	0	1

30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 41**

Erwartungswert:
μ = 8.2

Standardabweichung:
σ = 2.561

1σ-Intervall:
p(6≤X≤10) = 0.67349415

2σ-Intervall:
p(4≤X≤13) = 0.95146768

3σ-Intervall:
p(1≤X≤15) = 0.99596153

---

p = 0.2		**n = 42**
k	**p(X=k)**	**p(x≤k)**
0	0.00008507	0.00008507
1	0.00089324	0.00097831
2	0.00457786	0.00555617
3	0.01525954	0.02081571
4	0.03719512	0.05801083
5	0.07067073	0.12868157
6	0.10895071	0.23763228
7	0.14007949	0.37771177
8	0.15321194	0.53092371
9	0.14470017	0.67562387
10	0.11937764	0.79500151
11	0.0868201	0.88182161
12	0.05607131	0.93789292
13	0.03234884	0.97024176
14	0.01675208	0.98699383
15	0.00781764	0.99481147
16	0.00329806	0.99810953
17	0.00126102	0.99937056
18	0.00043786	0.99980841
19	0.00013827	0.99994668
20	0.00003975	0.99998643

21	0.00001041	0.99999685
22	0.00000248	0.99999933
23	5.4e-7	0.99999987
24	1.1e-7	0.99999998
25	2e-8	1
26	0	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 42**

Erwartungswert:
μ = 8.4

Standardabweichung:
σ = 2.592

1σ-Intervall:
p(6≤X≤10) = 0.66631994

2σ-Intervall:
p(4≤X≤13) = 0.94942604

3σ-Intervall:
p(1≤X≤16) = 0.99802446

---

p = 0.2		**n = 43**
k	**p(X=k)**	**p(x≤k)**
0	0.00006806	0.00006806
1	0.00073161	0.00079966
2	0.00384094	0.0046406
3	0.0131232	0.0177638
4	0.03280801	0.05057181
5	0.06397561	0.11454742
6	0.10129472	0.21584214
7	0.13385373	0.34969587
8	0.15058545	0.50028132
9	0.14640252	0.64668384
10	0.12444214	0.77112598

11	0.09333161	0.86445759
12	0.06222107	0.92667866
13	0.03709333	0.96377199
14	0.01987143	0.98364342
15	0.00960452	0.99324794
16	0.00420198	0.99744992
17	0.00166843	0.99911835
18	0.00060249	0.99972084
19	0.00019819	0.99991903
20	0.00005946	0.99997848
21	0.00001628	0.99999476
22	0.00000407	0.99999883
23	9.3e-7	0.99999976
24	1.9e-7	0.99999996
25	4e-8	0.99999999
26	1e-8	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 43**
Erwartungswert: $\mu = 8.6$		
Standardabweichung: $\sigma = 2.623$		
1σ-Intervall: $p(6 \le X \le 11) = 0.74991017$		
2σ-Intervall: $p(4 \le X \le 13) = 0.94600819$		
3σ-Intervall: $p(1 \le X \le 16) = 0.99738186$		

---

p = 0.2		**n = 44**
k	**p(X=k)**	**p(x≤k)**
0	0.00005445	0.00005445

1	0.0005989	0.00065334
2	0.00321907	0.00387241
3	0.01126675	0.01513916
4	0.02887104	0.04401021
5	0.05774209	0.1017523
6	0.0938309	0.19558319
7	0.12734193	0.32292512
8	0.14723911	0.47016423
9	0.14723911	0.61740333
10	0.12883422	0.74623755
11	0.09955371	0.84579127
12	0.06844318	0.91423444
13	0.04211888	0.95635332
14	0.02331581	0.97966913
15	0.0116579	0.99132703
16	0.00528249	0.99660952
17	0.00217514	0.99878466
18	0.00081568	0.99960034
19	0.00027905	0.99987939
20	0.0000872	0.99996659
21	0.00002491	0.99999151
22	0.00000651	0.99999802
23	0.00000156	0.99999958
24	3.4e-7	0.99999992
25	7e-8	0.99999999
26	1e-8	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 44**
Erwartungswert: μ = 8.8		

Standardabweichung: σ = 2.653
1σ-Intervall: p(7≤X≤11) = 0.65020807
2σ-Intervall: p(4≤X≤14) = 0.96452997
3σ-Intervall: p(1≤X≤16) = 0.99655508

---

p = 0.2		**n = 45**
k	**p(X=k)**	**p(x≤k)**
0	0.00004356	0.00004356
1	0.00049001	0.00053356
2	0.00269504	0.0032286
3	0.00965721	0.01288581
4	0.02535019	0.038236
5	0.05196788	0.09020388
6	0.08661313	0.17681701
7	0.12063972	0.29745674
8	0.14325967	0.44071641
9	0.14723911	0.58795551
10	0.1325152	0.72047071
11	0.10540981	0.82588052
12	0.07466529	0.90054581
13	0.04738374	0.94792955
14	0.02707642	0.97500597
15	0.01398948	0.98899545
16	0.00655757	0.99555302
17	0.00279661	0.99834964
18	0.00108757	0.99943721
19	0.00038637	0.99982358
20	0.00012557	0.99994915
21	0.00003737	0.99998652
22	0.00001019	0.99999672
23	0.00000255	0.99999926
24	5.8e-7	0.99999985
25	1.2e-7	0.99999997
26	2e-8	1
27	0	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1

37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 45**

Erwartungswert:
μ = 9

Standardabweichung:
σ = 2.683

1σ-Intervall:
p(7≤X≤11) = 0.64906351

2σ-Intervall:
p(4≤X≤14) = 0.96212016

3σ-Intervall:
p(1≤X≤17) = 0.99830608

---

p = 0.2		**n = 46**
k	**p(X=k)**	**p(x≤k)**
0	0.00003484	0.00003484
1	0.00040072	0.00043556
2	0.00225403	0.00268959
3	0.00826478	0.01095437
4	0.02221159	0.03316596
5	0.04664434	0.0798103
6	0.07968408	0.15949439
7	0.1138344	0.27332879
8	0.13873568	0.41206447
9	0.14644322	0.55850769
10	0.13545998	0.69396767
11	0.11083089	0.80479856
12	0.08081419	0.88561275
13	0.05284005	0.9384528
14	0.03113789	0.96959068
15	0.01660687	0.98619756
16	0.00804395	0.99424151
17	0.0035488	0.99779031
18	0.00142938	0.99921969
19	0.00052661	0.99974631
20	0.00017773	0.99992404
21	0.00005501	0.99997905
22	0.00001563	0.99999468
23	0.00000408	0.99999876

24	9.8e-7	0.99999973
25	2.1e-7	0.99999995
26	4e-8	0.99999999
27	1e-8	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 46**

Erwartungswert:
μ = 9.2

Standardabweichung:
σ = 2.713

1σ-Intervall:
p(7≤X≤11) = 0.64530417

2σ-Intervall:
p(4≤X≤14) = 0.95863631

3σ-Intervall:
p(2≤X≤17) = 0.99735475

---

p = 0.2		**n = 47**
k	**p(X=k)**	**p(x≤k)**
0	0.00002788	0.00002788
1	0.00032754	0.00035542
2	0.00188337	0.00223879
3	0.00706263	0.00930141
4	0.01942223	0.02872364
5	0.04175779	0.07048143
6	0.07307614	0.14355757
7	0.10700434	0.25056191
8	0.13375543	0.38431734
9	0.14490171	0.52921905

10	0.13765663	0.66687567
11	0.11575671	0.78263238
12	0.08681753	0.86944991
13	0.05843488	0.92788479
14	0.03547832	0.96336311
15	0.01951307	0.98287618
16	0.00975654	0.99263272
17	0.00444783	0.99708055
18	0.00185326	0.99893382
19	0.00070717	0.99964098
20	0.00024751	0.99988849
21	0.00007956	0.99996805
22	0.00002351	0.99999155
23	0.00000639	0.99999794
24	0.0000016	0.99999954
25	3.7e-7	0.9999999
26	8e-8	0.99999998
27	2e-8	1
28	0	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 47**

Erwartungswert:
$\mu = 9.4$

Standardabweichung:
$\sigma = 2.742$

1σ-Intervall:
$p(7 \le X \le 12) = 0.72589234$

2σ-Intervall:
$p(4 \le X \le 14) = 0.95406169$

3σ-Intervall:
$p(2 \le X \le 17) = 0.99672513$

p = 0.2		n = 48
k	**p(X=k)**	**p(x≤k)**
0	0.0000223	0.0000223
1	0.00026761	0.00028991
2	0.0015722	0.00186211
3	0.00602678	0.00788889
4	0.01695031	0.0248392
5	0.03729068	0.06212988
6	0.06681247	0.12894234
7	0.1002187	0.22916104
8	0.12840521	0.35756625
9	0.14267245	0.50023871
10	0.13910564	0.63934435
11	0.12013669	0.75948104
12	0.09260537	0.85208641
13	0.06411141	0.91619781
14	0.04006963	0.95626744
15	0.02270612	0.97897357
16	0.01170784	0.99068141
17	0.00550957	0.99619099
18	0.00237218	0.99856316
19	0.00093639	0.99949955
20	0.00033944	0.99983899
21	0.00011315	0.99995214
22	0.00003472	0.99998685
23	0.00000981	0.99999666
24	0.00000255	0.99999922
25	6.1e-7	0.99999983
26	1.4e-7	0.99999997
27	3e-8	0.99999999
28	1e-8	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1

42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 48**

Erwartungswert:
μ = 9.6

Standardabweichung:
σ = 2.771

1σ-Intervall:
p(7≤X≤12) = 0.72314406

2σ-Intervall:
p(5≤X≤15) = 0.95413437

3σ-Intervall:
p(2≤X≤17) = 0.99590108

---

p = 0.2		**n = 49**
k	**p(X=k)**	**p(x≤k)**
0	0.00001784	0.00001784
1	0.00021855	0.00023639
2	0.00131128	0.00154767
3	0.00513586	0.00668353
4	0.0147656	0.02144914
5	0.0332226	0.05467174
6	0.06090811	0.11557985
7	0.09353745	0.2091173
8	0.12276791	0.33188521
9	0.13981901	0.47170421
10	0.13981901	0.61152322
11	0.12393048	0.7354537
12	0.09811163	0.83356533
13	0.0698102	0.90337553
14	0.04487799	0.94825352
15	0.02617882	0.97443234
16	0.0139075	0.98833984
17	0.00674923	0.99508907
18	0.00299966	0.99808873
19	0.00122354	0.99931227
20	0.00045883	0.9997711
21	0.00015841	0.99992951
22	0.0000504	0.99997991
23	0.00001479	0.9999947
24	0.00000401	0.99999871
25	0.000001	0.99999971

26	2.3e-7	0.99999994
27	5e-8	0.99999999
28	1e-8	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 49**
Erwartungswert: μ = 9.8		
Standardabweichung: σ = 2.8		
1σ-Intervall: p(7≤X≤12) = 0.71798548		
2σ-Intervall: p(5≤X≤15) = 0.95298321		
3σ-Intervall: p(2≤X≤18) = 0.99785234		

---

p = 0.2		**n = 50**
k	**p(X=k)**	**p(x≤k)**
0	0.00001427	0.00001427
1	0.00017841	0.00019268
2	0.00109274	0.00128541
3	0.00437095	0.00565636
4	0.01283965	0.01849602
5	0.0295312	0.04802722
6	0.05537101	0.10339823
7	0.08701158	0.19040981
8	0.11692182	0.30733163

9	0.13640879	0.44374041
10	0.13981901	0.58355942
11	0.12710819	0.7106676
12	0.1032754	0.81394301
13	0.07547049	0.88941349
14	0.04986443	0.93927792
15	0.02991866	0.96919658
16	0.01636177	0.98555834
17	0.00818088	0.99373923
18	0.00374957	0.9974888
19	0.00157877	0.99906756
20	0.00061177	0.99967934
21	0.00021849	0.99989783
22	0.000072	0.99996983
23	0.00002191	0.99999174
24	0.00000616	0.99999791
25	0.0000016	0.99999951
26	3.9e-7	0.99999989
27	9e-8	0.99999998
28	2e-8	1
29	0	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 50**
Erwartungswert: μ = 10		
Standardabweichung: σ = 2.828		

1σ-Intervall: p(8≤X≤12) = 0.62353319
2σ-Intervall: p(5≤X≤15) = 0.95070056
3σ-Intervall: p(2≤X≤18) = 0.99729612

---

p = 0.2		n = 51
k	**p(X=k)**	**p(x≤k)**
0	0.00001142	0.00001142
1	0.00014558	0.000157
2	0.00090987	0.00106687
3	0.0037153	0.00478217
4	0.01114591	0.01592808
5	0.02619289	0.04212098
6	0.05020305	0.09232403
7	0.08068347	0.17300749
8	0.11093977	0.28394726
9	0.13251139	0.41645866
10	0.13913696	0.55559562
11	0.12965035	0.68524597
12	0.10804196	0.79328793
13	0.08103147	0.8743194
14	0.05498564	0.92930503
15	0.03390781	0.96321285
16	0.01907314	0.98228599
17	0.00981706	0.99210305
18	0.00463583	0.99673888
19	0.00201293	0.99875181
20	0.00080517	0.99955698
21	0.00029715	0.99985413
22	0.0001013	0.99995543
23	0.00003193	0.99998736
24	0.00000931	0.99999667
25	0.00000251	0.99999919
26	6.3e-7	0.99999982
27	1.5e-7	0.99999996
28	3e-8	0.99999999
29	1e-8	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1

38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 51**

Erwartungswert:
μ = 10.2

Standardabweichung:
σ = 2.857

1σ-Intervall:
p(8≤X≤13) = 0.7013119

2σ-Intervall:
p(5≤X≤15) = 0.94728476

3σ-Intervall:
p(2≤X≤18) = 0.99658189

---

p = 0.2		**n = 52**
k	**p(X=k)**	**p(x≤k)**
0	0.00000913	0.00000913
1	0.00011875	0.00012788
2	0.00075701	0.00088489
3	0.00315422	0.00403911
4	0.00965979	0.0136989
5	0.0231835	0.0368824
6	0.04540102	0.08228342
7	0.07458738	0.1568708
8	0.10488851	0.26175931
9	0.12819707	0.38995638
10	0.13781185	0.52776823
11	0.13154767	0.6593159
12	0.11236364	0.77167953
13	0.08643357	0.8581131
14	0.06019481	0.91830791
15	0.03812338	0.95643128
16	0.02204008	0.97847136
17	0.01166828	0.99013964
18	0.00567208	0.99581172

19	0.00253751	0.99834922
20	0.00104672	0.99939595
21	0.00039875	0.9997947
22	0.00014047	0.99993517
23	0.00004581	0.99998097
24	0.00001384	0.99999481
25	0.00000387	0.99999868
26	0.00000101	0.99999969
27	2.4e-7	0.99999993
28	5e-8	0.99999999
29	1e-8	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 52**

Erwartungswert:
μ = 10.4

Standardabweichung:
σ = 2.884

1σ-Intervall:
p(8≤X≤13) = 0.7012423

2σ-Intervall:
p(5≤X≤16) = 0.96477246

3σ-Intervall:
p(2≤X≤19) = 0.99822134

p = 0.2		n = 53
k	p(X=k)	p(x≤k)
0	0.00000731	0.00000731
1	0.00009682	0.00010413
2	0.00062936	0.00073349
3	0.00267478	0.00340827
4	0.00835868	0.01176694
5	0.02047876	0.0322457
6	0.04095751	0.07320321
7	0.06875011	0.14195332
8	0.09882828	0.24078161
9	0.12353536	0.36431696
10	0.13588889	0.50020586
11	0.13280051	0.63300636
12	0.11620044	0.74920681
13	0.09161958	0.84082639
14	0.06544256	0.90626895
15	0.04253766	0.94880661
16	0.02525674	0.97406335
17	0.01374264	0.98780598
18	0.00687132	0.9946773
19	0.00316442	0.99784172
20	0.00134488	0.9991866
21	0.00052835	0.99971495
22	0.00019213	0.99990707
23	0.00006474	0.99997181
24	0.00002023	0.99999204
25	0.00000587	0.99999791
26	0.00000158	0.99999949
27	3.9e-7	0.99999988
28	9e-8	0.99999998
29	2e-8	1
30	0	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1

45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 53**

Erwartungswert:
μ = 10.6

Standardabweichung:
σ = 2.912

1σ-Intervall:
p(8≤X≤13) = 0.69887306

2σ-Intervall:
p(5≤X≤16) = 0.9622964

3σ-Intervall:
p(2≤X≤19) = 0.99773759

---

p = 0.2		**n = 54**
k	**p(X=k)**	**p(x≤k)**
0	0.00000585	0.00000585
1	0.00007892	0.00008477
2	0.00052285	0.00060762
3	0.00226569	0.00287331
4	0.0072219	0.01009521
5	0.01805474	0.02814995
6	0.03686176	0.06501171
7	0.06319159	0.1282033
8	0.09281265	0.22101595
9	0.11859394	0.33960989
10	0.13341818	0.47302808
11	0.13341818	0.60644626
12	0.11952046	0.72596672
13	0.09653575	0.82250247
14	0.07067796	0.89318043
15	0.04711864	0.94029908
16	0.02871292	0.969012
17	0.01604546	0.98505745
18	0.00824558	0.99330304
19	0.0039058	0.99720884
20	0.00170879	0.99891763
21	0.00069165	0.99960928
22	0.00025937	0.99986865
23	0.00009022	0.99995886

24	0.00002913	0.999988
25	0.00000874	0.99999674
26	0.00000244	0.99999917
27	6.3e-7	0.9999998
28	1.5e-7	0.99999996
29	3e-8	0.99999999
30	1e-8	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 54**

Erwartungswert:
μ = 10.8

Standardabweichung:
σ = 2.939

1σ-Intervall:
p(8≤X≤13) = 0.69429917

2σ-Intervall:
p(5≤X≤16) = 0.95891679

3σ-Intervall:
p(2≤X≤19) = 0.99712407

---

p = 0.2		**n = 55**
k	**p(X=k)**	**p(x≤k)**
0	0.00000468	0.00000468
1	0.00006431	0.00006898

2	0.00043407	0.00050305
3	0.00191712	0.00242017
4	0.00623066	0.00865083
5	0.01588817	0.024539
6	0.03310036	0.05763936
7	0.05792563	0.11556498
8	0.08688844	0.20245342
9	0.11343768	0.3158911
10	0.13045334	0.44634444
11	0.13341818	0.57976262
12	0.1223	0.70206263
13	0.10113269	0.80319532
14	0.07584952	0.87904484
15	0.05183051	0.93087535
16	0.03239407	0.96326941
17	0.01857895	0.98184836
18	0.00980556	0.99165392
19	0.00477376	0.99642768
20	0.00214819	0.99857587
21	0.00089508	0.99947095
22	0.00034583	0.99981677
23	0.00012405	0.99994082
24	0.00004135	0.99998217
25	0.00001282	0.99999499
26	0.0000037	0.99999869
27	9.9e-7	0.99999968
28	2.5e-7	0.99999993
29	6e-8	0.99999998
30	1e-8	1
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1

49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 55**

Erwartungswert:
μ = 11

Standardabweichung:
σ = 2.966

1σ-Intervall:
p(9≤X≤13) = 0.6007419

2σ-Intervall:
p(6≤X≤16) = 0.93873041

3σ-Intervall:
p(3≤X≤19) = 0.99592463

---

p = 0.2		**n = 56**
k	**p(X=k)**	**p(x≤k)**
0	0.00000374	0.00000374
1	0.00005238	0.00005612
2	0.00036011	0.00041624
3	0.00162051	0.00203675
4	0.00536795	0.0074047
5	0.01395667	0.02136137
6	0.02965792	0.05101929
7	0.05296057	0.10397986
8	0.08109588	0.18507573
9	0.10812783	0.29320357
10	0.12705021	0.42025377
11	0.13282521	0.55307899
12	0.12452364	0.67760263
13	0.10536616	0.78296878
14	0.08090616	0.86387494
15	0.05663431	0.92050925
16	0.03628135	0.9567906
17	0.02134197	0.97813257
18	0.01156024	0.98969281
19	0.00578012	0.99547293
20	0.0026733	0.99814623
21	0.0011457	0.99929193
22	0.00045568	0.99974761
23	0.0001684	0.99991601
24	0.00005789	0.9999739
25	0.00001852	0.99999242

26	0.00000552	0.99999795
27	0.00000153	0.99999948
28	4e-7	0.99999988
29	1e-7	0.99999997
30	2e-8	0.99999999
31	0	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 56**
Erwartungswert: μ = 11.2		
Standardabweichung: σ = 2.993		
1σ-Intervall: p(9≤X≤14) = 0.6787992		
2σ-Intervall: p(6≤X≤17) = 0.95677121		
3σ-Intervall: p(3≤X≤20) = 0.99773		

---

p = 0.2		**n = 57**
k	**p(X=k)**	**p(x≤k)**
0	0.00000299	0.00000299
1	0.00004265	0.00004565

2	0.00029857	0.00034421
3	0.00136843	0.00171265
4	0.00461846	0.00633111
5	0.01223892	0.01857003
6	0.02651767	0.0450877
7	0.04830004	0.09338774
8	0.07546881	0.16885656
9	0.10272144	0.271578
10	0.12326573	0.39484373
11	0.13167021	0.52651395
12	0.12618395	0.6526979
13	0.10919765	0.76189555
14	0.08579816	0.84769371
15	0.06148868	0.90918238
16	0.04035194	0.94953433
17	0.02432985	0.97386418
18	0.01351658	0.98738076
19	0.00693614	0.9943169
20	0.00329467	0.99761157
21	0.00145122	0.99906279
22	0.00059368	0.99965647
23	0.00022586	0.99988233
24	0.00007999	0.99996232
25	0.0000264	0.99998872
26	0.00000812	0.99999684
27	0.00000233	0.99999917
28	6.2e-7	0.9999998
29	1.6e-7	0.99999995
30	4e-8	0.99999999
31	1e-8	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1

49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 57**

Erwartungswert:
μ = 11.4

Standardabweichung:
σ = 3.02

1σ-Intervall:
p(9≤X≤14) = 0.67883715

2σ-Intervall:
p(6≤X≤17) = 0.95529415

3σ-Intervall:
p(3≤X≤20) = 0.99726736

---

p = 0.2		**n = 58**
k	**p(X=k)**	**p(x≤k)**
0	0.00000239	0.00000239
1	0.00003472	0.00003712
2	0.00024738	0.0002845
3	0.00115446	0.00143896
4	0.00396846	0.00540742
5	0.01071483	0.01612225
6	0.02366192	0.03978417
7	0.04394357	0.08372774
8	0.07003506	0.1537628
9	0.09727092	0.25103371
10	0.11915687	0.37019059
11	0.12998932	0.5001799
12	0.12728121	0.62746111
13	0.11259491	0.74005602
14	0.09047805	0.83053408
15	0.06635057	0.89688465
16	0.04457929	0.94146394
17	0.02753427	0.96899821
18	0.01567924	0.98467744
19	0.00825223	0.99292967
20	0.00402296	0.99695264
21	0.00181991	0.99877255
22	0.00076519	0.99953774
23	0.00029942	0.99983716

24	0.00010916	0.99994632
25	0.00003712	0.99998344
26	0.00001178	0.99999522
27	0.00000349	0.99999871
28	9.7e-7	0.99999967
29	2.5e-7	0.99999992
30	6e-8	0.99999998
31	1e-8	1
32	0	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 58**

Erwartungswert:
μ = 11.6

Standardabweichung:
σ = 3.046

1σ-Intervall:
p(9≤X≤14) = 0.67677128

2σ-Intervall:
p(6≤X≤17) = 0.95287596

3σ-Intervall:
p(3≤X≤20) = 0.99666814

p = 0.2		n = 59
k	p(X=k)	p(x≤k)
0	0.00000192	0.00000192
1	0.00002826	0.00003017
2	0.00020485	0.00023502
3	0.00097304	0.00120807
4	0.00340566	0.00461372
5	0.00936556	0.01397928
6	0.0210725	0.03505178
7	0.03988724	0.07493902
8	0.06481676	0.13975578
9	0.09182375	0.23157953
10	0.11477968	0.34635921
11	0.12782283	0.47418204
12	0.12782283	0.60200487
13	0.11553217	0.71753704
14	0.09490143	0.81243846
15	0.07117607	0.88361453
16	0.04893355	0.93254808
17	0.03094327	0.96349136
18	0.01805024	0.9815416
19	0.00973763	0.99127923
20	0.00486882	0.99614804
21	0.00226052	0.99840857
22	0.00097613	0.9993847
23	0.00039258	0.99977728
24	0.00014722	0.99992449
25	0.00005153	0.99997602
26	0.00001684	0.99999286
27	0.00000515	0.99999801
28	0.00000147	0.99999948
29	3.9e-7	0.99999987
30	1e-7	0.99999997
31	2e-8	0.99999999
32	1e-8	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1

45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 59**

Erwartungswert:
μ = 11.8

Standardabweichung:
σ = 3.072

1σ-Intervall:
p(9≤X≤14) = 0.67268268

2σ-Intervall:
p(6≤X≤17) = 0.94951207

3σ-Intervall:
p(3≤X≤21) = 0.99817354

---

p = 0.2		**n = 60**
k	**p(X=k)**	**p(x≤k)**
0	0.00000153	0.00000153
1	0.00002299	0.00002452
2	0.00016953	0.00019405
3	0.00081941	0.00101346
4	0.00291913	0.00393259
5	0.00817358	0.01210617
6	0.01873111	0.03083728
7	0.03612429	0.06696157
8	0.05983086	0.12679243
9	0.08642235	0.21321478
10	0.11018849	0.32340328
11	0.1252142	0.44861747
12	0.12782283	0.5764403
13	0.1179903	0.6944306
14	0.09902758	0.79345818
15	0.07592114	0.86937932
16	0.05338205	0.92276137
17	0.03454133	0.9573027

18	0.02062885	0.97793155
19	0.01140015	0.9893317
20	0.00584258	0.99517428
21	0.00278218	0.99795646
22	0.00123301	0.99918947
23	0.00050929	0.99969876
24	0.00019629	0.99989505
25	0.00007066	0.99996571
26	0.00002378	0.99998949
27	0.00000749	0.99999698
28	0.00000221	0.99999919
29	6.1e-7	0.99999979
30	1.6e-7	0.99999995
31	4e-8	0.99999999
32	1e-8	1
33	0	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 60**
Erwartungswert: μ = 12		

Standardabweichung: σ = 3.098
1σ-Intervall: p(9≤X≤15) = 0.74258689
2σ-Intervall: p(6≤X≤18) = 0.96582538
3σ-Intervall: p(3≤X≤21) = 0.99776241

---

p = 0.2		n = 61
k	**p(X=k)**	**p(x≤k)**
0	0.00000123	0.00000123
1	0.0000187	0.00001992
2	0.00014022	0.00016015
3	0.00068943	0.00084958
4	0.00249919	0.00334877
5	0.00712269	0.01047145
6	0.01661961	0.02709106
7	0.03264566	0.05973672
8	0.05508954	0.11482626
9	0.08110405	0.19593031
10	0.10543527	0.30136558
11	0.12220906	0.42357463
12	0.1273011	0.55087574
13	0.11995681	0.67083254
14	0.10282012	0.77365266
15	0.08054243	0.85419509
16	0.05788987	0.91208496
17	0.03830947	0.95039443
18	0.02341134	0.97380578
19	0.01324589	0.98705167
20	0.00695409	0.99400577
21	0.00339426	0.99740003
22	0.00154285	0.99894287
23	0.00065403	0.9995969
24	0.00025889	0.99985579
25	0.00009579	0.99995158
26	0.00003316	0.99998474
27	0.00001075	0.99999548
28	0.00000326	0.99999874
29	9.3e-7	0.99999967
30	2.5e-7	0.99999992
31	6e-8	0.99999998
32	1e-8	1
33	0	1
34	0	1
35	0	1
36	0	1

37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 61**

Erwartungswert:
μ = 12.2

Standardabweichung:
σ = 3.124

1σ-Intervall:
p(10≤X≤15) = 0.65826478

2σ-Intervall:
p(6≤X≤18) = 0.96333432

3σ-Intervall:
p(3≤X≤21) = 0.99723988

---

p = 0.2		**n = 62**
k	**p(X=k)**	**p(x≤k)**
0	9.8e-7	9.8e-7
1	0.0000152	0.00001618
2	0.00011592	0.0001321
3	0.00057959	0.00071169
4	0.00213724	0.00284893
5	0.00619799	0.00904692
6	0.01472022	0.02376714
7	0.02944045	0.05320759

8	0.05060077	0.10380835
9	0.07590115	0.1797095
10	0.10056902	0.28027852
11	0.1188543	0.39913282
12	0.12628269	0.52541552
13	0.12142567	0.64684118
14	0.10624746	0.75308864
15	0.08499797	0.83808661
16	0.06242038	0.90050699
17	0.04222555	0.94273254
18	0.02639097	0.96912351
19	0.01527898	0.98440249
20	0.00821245	0.99261495
21	0.00410623	0.99672117
22	0.00191313	0.9986343
23	0.00083179	0.9994661
24	0.00033792	0.99980401
25	0.00012841	0.99993242
26	0.00004568	0.99997811
27	0.00001523	0.99999333
28	0.00000476	0.99999809
29	0.00000139	0.99999949
30	3.8e-7	0.99999987
31	1e-7	0.99999997
32	2e-8	0.99999999
33	1e-8	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1

55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 62**

Erwartungswert:
μ = 12.4

Standardabweichung:
σ = 3.15

1σ-Intervall:
p(10≤X≤15) = 0.65837711

2σ-Intervall:
p(7≤X≤18) = 0.94535637

3σ-Intervall:
p(3≤X≤21) = 0.99658907

---

p = 0.2		**n = 63**
k	**p(X=k)**	**p(x≤k)**
0	7.8e-7	7.8e-7
1	0.00001236	0.00001314
2	0.00009577	0.00010892
3	0.00048686	0.00059577
4	0.00182571	0.00242148
5	0.00538584	0.00780732
6	0.01301578	0.0208231
7	0.0264964	0.0473195
8	0.0463687	0.0936882
9	0.07084107	0.16452927
10	0.09563545	0.26016472
11	0.11519724	0.37536196
12	0.12479701	0.50015898
13	0.12239707	0.62255605
14	0.1092831	0.73183915
15	0.08924786	0.82108701
16	0.0669359	0.88802291
17	0.04626452	0.93428743
18	0.02955789	0.96384532
19	0.01750138	0.9813467
20	0.00962576	0.99097246
21	0.00492747	0.99589993
22	0.00235175	0.99825168
23	0.00104806	0.99929974
24	0.00043669	0.99973643

25	0.00017031	0.99990674
26	0.00006223	0.99996897
27	0.00002132	0.99999029
28	0.00000685	0.99999714
29	0.00000207	0.99999921
30	5.9e-7	0.99999979
31	1.6e-7	0.99999995
32	4e-8	0.99999999
33	1e-8	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 63**

Erwartungswert:
$\mu = 12.6$

Standardabweichung:
$\sigma = 3.175$

1σ-Intervall:
$p(10 \le X \le 15) = 0.65655774$

2σ-Intervall:
$p(7 \le X \le 18) = 0.94302222$

3σ-Intervall:
$p(4 \le X \le 22) = 0.9976559$

p = 0.2		n = 64
k	**p(X=k)**	**p(x≤k)**
0	6.3e-7	6.3e-7
1	0.00001004	0.00001067
2	0.00007909	0.00008976
3	0.00040864	0.0004984
4	0.00155794	0.00205634
5	0.00467381	0.00673015
6	0.01148979	0.01821994
7	0.02380028	0.04202022
8	0.04239424	0.08441446
9	0.0659466	0.15036106
10	0.09067657	0.24103763
11	0.11128488	0.35232251
12	0.12287706	0.47519957
13	0.12287706	0.59807663
14	0.11190589	0.70998253
15	0.09325491	0.80323744
16	0.07139829	0.87463573
17	0.05039879	0.92503453
18	0.03289921	0.95793374
19	0.01991268	0.97784642
20	0.01120088	0.9890473
21	0.00586713	0.99491443
22	0.00286689	0.99778133
23	0.0013088	0.99909013
24	0.00055897	0.99964909
25	0.00022359	0.99987268
26	0.00008384	0.99995652
27	0.0000295	0.99998602
28	0.00000975	0.99999577
29	0.00000302	0.99999879
30	8.8e-7	0.99999968
31	2.4e-7	0.99999992
32	6e-8	0.99999998
33	2e-8	1
34	0	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1

42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 64**
Erwartungswert: μ = 12.8		
Standardabweichung: σ = 3.2		
1σ-Intervall: p(10≤X≤16) = 0.72427468		
2σ-Intervall: p(7≤X≤19) = 0.95962648		
3σ-Intervall: p(4≤X≤22) = 0.99728292		

---

p = 0.2		**n = 65**
k	**p(X=k)**	**p(x≤k)**
0	5e-7	5e-7
1	0.00000816	0.00000866
2	0.00006528	0.00007394
3	0.00034273	0.00041667
4	0.00132808	0.00174475
5	0.00405064	0.00579539
6	0.01012659	0.01592198
7	0.02133818	0.03726016
8	0.03867545	0.07593561
9	0.06123613	0.13717174

10	0.08573058	0.22290231
11	0.10716322	0.33006554
12	0.12055863	0.45062416
13	0.12287706	0.57350122
14	0.11410013	0.68760135
15	0.09698511	0.78458646
16	0.07576962	0.86035607
17	0.05459869	0.91495477
18	0.03639913	0.9513539
19	0.02250999	0.97386388
20	0.01294324	0.98680713
21	0.00693388	0.99374101
22	0.00346694	0.99720795
23	0.00162042	0.99882837
24	0.00070893	0.9995373
25	0.00029066	0.99982796
26	0.00011179	0.99993975
27	0.00004037	0.99998012
28	0.0000137	0.99999382
29	0.00000437	0.99999819
30	0.00000131	0.9999995
31	3.7e-7	0.99999987
32	1e-7	0.99999997
33	2e-8	0.99999999
34	1e-8	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1

57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 65**

Erwartungswert:
μ = 13

Standardabweichung:
σ = 3.225

1σ-Intervall:
p(10≤X≤16) = 0.72318434

2σ-Intervall:
p(7≤X≤19) = 0.9579419

3σ-Intervall:
p(4≤X≤22) = 0.99679127

---

p = 0.2		**n = 66**
k	**p(X=k)**	**p(x≤k)**
0	4e-7	4e-7
1	0.00000663	0.00000703
2	0.00005386	0.00006089
3	0.00028724	0.00034813
4	0.00113101	0.00147914
5	0.00350613	0.00498526
6	0.0089114	0.01389666
7	0.01909586	0.03299253
8	0.03520799	0.06820052
9	0.05672399	0.12492451
10	0.08083169	0.2057562
11	0.10287669	0.30863289
12	0.11787954	0.42651244
13	0.12241337	0.54892581
14	0.11585551	0.66478132
15	0.10040811	0.76518944
16	0.08001271	0.84520215
17	0.05883288	0.90403503
18	0.04003904	0.94407407
19	0.02528782	0.96936189
20	0.01485659	0.98421848
21	0.00813575	0.99235423
22	0.00416033	0.99651456
23	0.00198972	0.99850428

24	0.00089123	0.99939551
25	0.00037432	0.99976983
26	0.00014757	0.9999174
27	0.00005465	0.99997205
28	0.00001903	0.99999108
29	0.00000623	0.99999732
30	0.00000192	0.99999924
31	5.6e-7	0.9999998
32	1.5e-7	0.99999995
33	4e-8	0.99999999
34	1e-8	1
35	0	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 66**
Erwartungswert: μ = 13.2		

Standardabweichung: σ = 3.25
1σ-Intervall: p(10≤X≤16) = 0.72027764
2σ-Intervall: p(7≤X≤19) = 0.95546522
3σ-Intervall: p(4≤X≤22) = 0.99616643

---

p = 0.2		**n = 67**
k	**p(X=k)**	**p(x≤k)**
0	3.2e-7	3.2e-7
1	0.00000538	0.0000057
2	0.00004441	0.00005012
3	0.00024056	0.00029068
4	0.00096225	0.00125293
5	0.0030311	0.00428404
6	0.00783035	0.01211438
7	0.01705897	0.02917335
8	0.03198557	0.06115892
9	0.05242079	0.11357971
10	0.07601015	0.18958986
11	0.09846769	0.28805755
12	0.11487897	0.40293653
13	0.12150661	0.52444314
14	0.11716709	0.64161022
15	0.10349759	0.74510781
16	0.08409179	0.82919961
17	0.06306885	0.89226845
18	0.04379781	0.93606626
19	0.02823806	0.96430432
20	0.01694284	0.98124716
21	0.00947992	0.99072708
22	0.00495541	0.99568249
23	0.00242384	0.99810634
24	0.00111093	0.99921727
25	0.0004777	0.99969496
26	0.00019292	0.99988788
27	0.00007324	0.99996112
28	0.00002616	0.99998727
29	0.00000879	0.99999607
30	0.00000278	0.99999885
31	8.3e-7	0.99999968
32	2.3e-7	0.99999992
33	6e-8	0.99999998
34	2e-8	1
35	0	1
36	0	1

37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 67**
Erwartungswert: μ = 13.4		
Standardabweichung: σ = 3.274		
1σ-Intervall: p(11≤X≤16) = 0.63960975		
2σ-Intervall: p(7≤X≤19) = 0.95218994		
3σ-Intervall: p(4≤X≤23) = 0.99781566		

---

p = 0.2		**n = 68**
k	**p(X=k)**	**p(x≤k)**
0	2.6e-7	2.6e-7
1	0.00000437	0.00000463

2	0.00003661	0.00004123
3	0.00020133	0.00024257
4	0.00081792	0.00106048
5	0.00261733	0.00367782
6	0.0068705	0.01054831
7	0.01521325	0.02576156
8	0.02900025	0.05476181
9	0.04833375	0.10309555
10	0.07129228	0.17438783
11	0.09397618	0.26836402
12	0.11159672	0.37996073
13	0.12018108	0.50014181
14	0.11803499	0.6181768
15	0.10623149	0.7244083
16	0.08797295	0.81238125
17	0.06727344	0.87965468
18	0.04765202	0.9273067
19	0.03135001	0.95865671
20	0.01920188	0.97785859
21	0.0109725	0.9888311
22	0.00586031	0.99469141
23	0.00293016	0.99762157
24	0.00137351	0.99899508
25	0.00060434	0.99959942
26	0.00024987	0.9998493
27	0.00009717	0.99994647
28	0.00003557	0.99998204
29	0.00001227	0.99999431
30	0.00000399	0.9999983
31	0.00000122	0.99999952
32	3.5e-7	0.99999987
33	1e-7	0.99999997
34	2e-8	0.99999999
35	1e-8	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1

49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 68**

Erwartungswert:
μ = 13.6

Standardabweichung:
σ = 3.298

1σ-Intervall:
p(11≤X≤16) = 0.63799342

2σ-Intervall:
p(8≤X≤20) = 0.95209703

3σ-Intervall:
p(4≤X≤23) = 0.997379

---

p = 0.2		**n = 69**
k	**p(X=k)**	**p(x≤k)**
0	2.1e-7	2.1e-7
1	0.00000355	0.00000375
2	0.00003016	0.00003391
3	0.00016839	0.0002023
4	0.0006946	0.0008969
5	0.00225745	0.00315435
6	0.00601986	0.00917421
7	0.0135447	0.02271891
8	0.02624285	0.04896176
9	0.04446705	0.09342881
10	0.06670057	0.16012938
11	0.0894394	0.24956878
12	0.10807261	0.35764139

13	0.11846421	0.4761056
14	0.11846421	0.59456981
15	0.10859219	0.703162
16	0.09162466	0.79478666
17	0.07141334	0.8662
18	0.0515763	0.9177763
19	0.03461041	0.95238671
20	0.02163151	0.97401822
21	0.01261838	0.9866366
22	0.00688275	0.99351935
23	0.00351619	0.99703554
24	0.00168484	0.99872038
25	0.00075818	0.99947856
26	0.00032077	0.99979932
27	0.00012771	0.99992704
28	0.00004789	0.99997493
29	0.00001693	0.99999186
30	0.00000564	0.9999975
31	0.00000177	0.99999927
32	5.3e-7	0.9999998
33	1.5e-7	0.99999995
34	4e-8	0.99999999
35	1e-8	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1

60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 69**

Erwartungswert:
μ = 13.8

Standardabweichung:
σ = 3.323

1σ-Intervall:
p(11≤X≤17) = 0.70607062

2σ-Intervall:
p(8≤X≤20) = 0.95129931

3σ-Intervall:
p(4≤X≤23) = 0.99683324

---

p = 0.2		**n = 70**
k	**p(X=k)**	**p(x≤k)**
0	1.6e-7	1.6e-7
1	0.00000288	0.00000304
2	0.00002484	0.00002788
3	0.00014074	0.00016862
4	0.00058936	0.00075798
5	0.00194488	0.00270286
6	0.00526738	0.00797024
7	0.01203973	0.02000997
8	0.02370322	0.04371319
9	0.04082221	0.0845354
10	0.06225387	0.14678926
11	0.08489164	0.2316809
12	0.10434597	0.33602687
13	0.11638589	0.45241276
14	0.11846421	0.57087696
15	0.11056659	0.68144356
16	0.09501817	0.77646173
17	0.0754556	0.85191733
18	0.05554371	0.90746104
19	0.03800359	0.94546463
20	0.02422729	0.96969192
21	0.01442101	0.98411292
22	0.00802988	0.9921428

23	0.0041895	0.9963323
24	0.00205111	0.99838341
25	0.00094351	0.99932692
26	0.00040825	0.99973517
27	0.00016632	0.99990149
28	0.00006386	0.99996535
29	0.00002312	0.99998847
30	0.0000079	0.99999637
31	0.00000255	0.99999892
32	7.8e-7	0.9999997
33	2.2e-7	0.99999992
34	6e-8	0.99999998
35	2e-8	1
36	0	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1

70	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 70**

Erwartungswert:
μ = 14

Standardabweichung:
σ = 3.347

1σ-Intervall:
p(11≤X≤17) = 0.70512807

2σ-Intervall:
p(8≤X≤20) = 0.94968194

3σ-Intervall:
p(4≤X≤24) = 0.99821479

---

p = 0.2		**n = 71**
k	**p(X=k)**	**p(x≤k)**
0	1.3e-7	1.3e-7
1	0.00000234	0.00000247
2	0.00002045	0.00002291
3	0.00011756	0.00014047
4	0.00049963	0.00064011
5	0.00167377	0.00231388
6	0.00460288	0.00691677
7	0.01068526	0.01760202
8	0.02137052	0.03897254
9	0.03739841	0.07637095
10	0.05796753	0.13433849
11	0.08036408	0.21470257
12	0.1004551	0.31515767
13	0.1139779	0.42913558
14	0.11804854	0.54718412
15	0.11214612	0.65933024
16	0.09812785	0.75745809
17	0.07936812	0.83682621
18	0.05952609	0.8963523
19	0.04151161	0.93786391
20	0.02698255	0.96484646
21	0.01638226	0.98122872
22	0.0093081	0.99053682
23	0.00495758	0.9954944
24	0.00247879	0.99797319
25	0.00116503	0.99913822
26	0.0005153	0.99965352
27	0.00021471	0.99986823
28	0.00008435	0.99995258
29	0.00003127	0.99998385
30	0.00001094	0.99999479
31	0.00000362	0.99999841

32	0.00000113	0.99999954
33	3.3e-7	0.99999987
34	9e-8	0.99999997
35	2e-8	0.99999999
36	1e-8	1
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 71**
Erwartungswert: μ = 14.2		
Standardabweichung: σ = 3.37		
1σ-Intervall: p(11≤X≤17) = 0.70248772		

2σ-Intervall: p(8≤X≤20) = 0.94724443
3σ-Intervall: p(5≤X≤24) = 0.99733308

---

p = 0.2		n = 72
k	**p(X=k)**	**p(x≤k)**
0	1.1e-7	1.1e-7
1	0.0000019	0.000002
2	0.00001682	0.00001882
3	0.00009814	0.00011696
4	0.00042322	0.00054018
5	0.00143895	0.00197913
6	0.00401706	0.00599619
7	0.00946878	0.01546497
8	0.01923347	0.03469844
9	0.03419283	0.06889127
10	0.05385371	0.12274498
11	0.07588477	0.19862975
12	0.0964369	0.29506665
13	0.11127334	0.40634
14	0.11723442	0.52357441
15	0.1133266	0.63690102
16	0.10093151	0.73783252
17	0.08312006	0.82095259
18	0.06349449	0.88444708
19	0.04511451	0.92956159
20	0.02988836	0.95944995
21	0.01850232	0.97795227
22	0.01072293	0.9886752
23	0.00582768	0.99450288
24	0.00297455	0.99747743
25	0.00142778	0.99890521
26	0.00064525	0.99955046
27	0.00027483	0.99982529
28	0.00011042	0.99993571
29	0.00004188	0.99997759
30	0.00001501	0.9999926
31	0.00000508	0.99999769
32	0.00000163	0.99999931
33	4.9e-7	0.99999981
34	1.4e-7	0.99999995
35	4e-8	0.99999999
36	1e-8	1
37	0	1
38	0	1
39	0	1

40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 72**

Erwartungswert:
μ = 14.4

Standardabweichung:
σ = 3.394

1σ-Intervall:
p(12≤X≤17) = 0.62232283

2σ-Intervall:
p(8≤X≤21) = 0.96248729

3σ-Intervall:
p(5≤X≤24) = 0.99693725

p = 0.2		n = 73
k	p(X=k)	p(x≤k)
0	8e-8	8e-8
1	0.00000154	0.00000162
2	0.00001384	0.00001546
3	0.00008188	0.00009733
4	0.0003582	0.00045554
5	0.0012358	0.00169134
6	0.00350144	0.00519278
7	0.00837844	0.01357122
8	0.01728053	0.03085175
9	0.03120096	0.06205271
10	0.04992153	0.11197424
11	0.07147856	0.1834528
12	0.09232647	0.27577927
13	0.10830606	0.38408533
14	0.1160422	0.50012753
15	0.11410817	0.6142357
16	0.10341052	0.71764622
17	0.08668235	0.80432857
18	0.06741961	0.87174818
19	0.04879051	0.92053868
20	0.03293359	0.95347228
21	0.02077953	0.9742518
22	0.01227881	0.98653061
23	0.00680673	0.99333735
24	0.00354517	0.99688252
25	0.00173713	0.99861966
26	0.00080175	0.99942141
27	0.00034891	0.99977032
28	0.0001433	0.99991362
29	0.00005559	0.99996922
30	0.00002038	0.9999896
31	0.00000707	0.99999667
32	0.00000232	0.99999899
33	7.2e-7	0.99999971
34	2.1e-7	0.99999992
35	6e-8	0.99999998
36	2e-8	0.99999999
37	0	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1

45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 73**

Erwartungswert:
$\mu = 14.6$

Standardabweichung:
$\sigma = 3.418$

1σ-Intervall:
$p(12 \le X \le 18) = 0.68829538$

2σ-Intervall:
$p(8 \le X \le 21) = 0.96068059$

3σ-Intervall:
$p(5 \le X \le 24) = 0.99642698$

---

p = 0.2		**n = 74**
k	**p(X=k)**	**p(x≤k)**
0	7e-8	7e-8
1	0.00000125	0.00000131
2	0.00001138	0.00001269
3	0.00006827	0.00008096

4	0.00030294	0.0003839
5	0.00106028	0.00144418
6	0.00304831	0.00449249
7	0.00740304	0.01189553
8	0.01550011	0.02739564
9	0.02841687	0.05581251
10	0.04617742	0.10198993
11	0.06716715	0.16915709
12	0.08815689	0.25731398
13	0.10511014	0.36242412
14	0.11449497	0.47691909
15	0.11449497	0.59141406
16	0.10555005	0.69696412
17	0.09002799	0.7869921
18	0.07127216	0.85826426
19	0.05251633	0.91078058
20	0.03610497	0.94688556
21	0.02321034	0.9700959
22	0.01397895	0.98407485
23	0.00790115	0.991976
24	0.00419749	0.99617349
25	0.00209874	0.99827223
26	0.00098883	0.99926106
27	0.00043948	0.99970054
28	0.00018442	0.99988496
29	0.00007313	0.9999581
30	0.00002743	0.99998552
31	0.00000973	0.99999525
32	0.00000327	0.99999852
33	0.00000104	0.99999956
34	3.1e-7	0.99999988
35	9e-8	0.99999997
36	2e-8	0.99999999
37	1e-8	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1

51	0	1
52	0	1
53	0	1
54	0	1
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56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 74**
Erwartungswert: μ = 14.8		
Standardabweichung: σ = 3.441		
1σ-Intervall: p(12≤X≤18) = 0.68910717		
2σ-Intervall: p(8≤X≤21) = 0.95820037		
3σ-Intervall: p(5≤X≤25) = 0.99788833		

---

p = 0.2		**n = 75**
k	**p(X=k)**	**p(x≤k)**
0	5e-8	5e-8
1	0.00000101	0.00000106
2	0.00000935	0.00001042
3	0.00005689	0.00006731
4	0.000256	0.00032331
5	0.00090881	0.00123212
6	0.0026507	0.00388283
7	0.00653209	0.01041492
8	0.0138807	0.02429562

9	0.02583352	0.05012914
10	0.04262531	0.09275445
11	0.06296921	0.15572366
12	0.08395894	0.2396826
13	0.10171949	0.34140209
14	0.11261801	0.4540201
15	0.11449497	0.56851507
16	0.10733904	0.67585411
17	0.0931324	0.76898651
18	0.07502332	0.84400983
19	0.05626749	0.90027732
20	0.03938724	0.93966456
21	0.02578927	0.96545383
22	0.01582523	0.98127906
23	0.00911671	0.99039577
24	0.00493822	0.99533399
25	0.00251849	0.99785248
26	0.00121081	0.99906329
27	0.00054935	0.99961264
28	0.00023544	0.99984808
29	0.00009539	0.99994347
30	0.00003657	0.99998004
31	0.00001327	0.99999331
32	0.00000456	0.99999787
33	0.00000149	0.99999936
34	4.6e-7	0.99999982
35	1.3e-7	0.99999995
36	4e-8	0.99999999
37	1e-8	1
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1

56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 75**

Erwartungswert:
μ = 15

Standardabweichung:
σ = 3.464

1σ-Intervall:
p(12≤X≤18) = 0.68828617

2σ-Intervall:
p(9≤X≤21) = 0.94115821

3σ-Intervall:
p(5≤X≤25) = 0.99752917

---

p = 0.2		**n = 76**
k	**p(X=k)**	**p(x≤k)**
0	4e-8	4e-8
1	8.2e-7	8.6e-7
2	0.00000768	0.00000855
3	0.00004738	0.00005593
4	0.00021618	0.00027211
5	0.00077825	0.00105036
6	0.00230233	0.00335269
7	0.00575582	0.0091085
8	0.01241098	0.02151948
9	0.02344296	0.04496244
10	0.03926695	0.08422939
11	0.05890043	0.14312982
12	0.079761	0.22289081

13	0.09816738	0.32105819
14	0.1104383	0.43149649
15	0.11411958	0.54561607
16	0.10877022	0.6543863
17	0.09597373	0.75036003
18	0.07864514	0.82900516
19	0.06001866	0.88902382
20	0.04276329	0.93178711
21	0.02850886	0.96029598
22	0.01781804	0.97811402
23	0.01045841	0.98857243
24	0.00577392	0.99434635
25	0.00300244	0.99734878
26	0.00147235	0.99882113
27	0.00068164	0.99950277
28	0.00029822	0.99980099
29	0.0001234	0.99992439
30	0.00004833	0.99997272
31	0.00001793	0.99999065
32	0.0000063	0.99999696
33	0.0000021	0.99999906
34	6.6e-7	0.99999972
35	2e-7	0.99999992
36	6e-8	0.99999998
37	2e-8	0.99999999
38	0	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1

60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 76**

Erwartungswert:
μ = 15.2

Standardabweichung:
σ = 3.487

1σ-Intervall:
p(12≤X≤18) = 0.68587535

2σ-Intervall:
p(9≤X≤22) = 0.95659454

3σ-Intervall:
p(5≤X≤25) = 0.99707667

---

p = 0.2		**n = 77**
k	**p(X=k)**	**p(x≤k)**
0	3e-8	3e-8
1	6.6e-7	7e-7
2	0.00000631	0.00000701
3	0.00003944	0.00004645
4	0.00018242	0.00022887
5	0.00066584	0.00089471
6	0.00199751	0.00289222
7	0.00506512	0.00795734
8	0.01107994	0.01903728
9	0.02123656	0.04027384
10	0.03610215	0.076376
11	0.05497373	0.13134973
12	0.07558888	0.20693861
13	0.0944861	0.30142472
14	0.10798412	0.40940883
15	0.11338332	0.52279216

16	0.1098401	0.63263225
17	0.09853303	0.73116528
18	0.08211086	0.81327614
19	0.06374395	0.87702009
20	0.04621437	0.92323446
21	0.03135975	0.9545942
22	0.0199562	0.97455041
23	0.01193034	0.98648075
24	0.00671082	0.99319156
25	0.00355673	0.99674829
26	0.00177837	0.99852666
27	0.00083978	0.99936644
28	0.0003749	0.99974135
29	0.00015836	0.99989971
30	0.00006335	0.99996306
31	0.00002401	0.99998707
32	0.00000863	0.9999957
33	0.00000294	0.99999864
34	9.5e-7	0.99999959
35	2.9e-7	0.99999988
36	9e-8	0.99999997
37	2e-8	0.99999999
38	1e-8	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1

63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 77**

Erwartungswert:
μ = 15.4

Standardabweichung:
σ = 3.51

1σ-Intervall:
p(12≤X≤18) = 0.68192641

2σ-Intervall:
p(9≤X≤22) = 0.95551312

3σ-Intervall:
p(5≤X≤25) = 0.99651942

---

p = 0.2		**n = 78**
k	**p(X=k)**	**p(x≤k)**
0	3e-8	3e-8
1	5.4e-7	5.7e-7
2	0.00000518	0.00000575
3	0.00003282	0.00003856
4	0.00015383	0.00019239
5	0.00056915	0.00076154
6	0.00173118	0.00249272
7	0.0044516	0.00694432
8	0.00987698	0.01682129
9	0.01920524	0.03602653
10	0.03312903	0.06915557
11	0.05119942	0.12035498
12	0.07146585	0.19182084
13	0.09070666	0.2825275
14	0.10528452	0.38781201
15	0.11230348	0.50011549
16	0.11054874	0.61066423
17	0.10079444	0.71145867

18	0.08539529	0.79685396
19	0.06741733	0.8642713
20	0.04972028	0.91399158
21	0.03433067	0.94832225
22	0.02223691	0.97055917
23	0.01353551	0.98409468
24	0.00775472	0.9918494
25	0.00418755	0.99603695
26	0.00213404	0.99817099
27	0.0010275	0.99919849
28	0.00046788	0.99966637
29	0.00020167	0.99986804
30	0.00008235	0.99995039
31	0.00003188	0.99998227
32	0.0000117	0.99999397
33	0.00000408	0.99999805
34	0.00000135	0.9999994
35	4.2e-7	0.99999982
36	1.3e-7	0.99999995
37	4e-8	0.99999999
38	1e-8	1
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1

65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 78**

Erwartungswert:
μ = 15.6

Standardabweichung:
σ = 3.533

1σ-Intervall:
p(13≤X≤19) = 0.67245046

2σ-Intervall:
p(9≤X≤22) = 0.95373787

3σ-Intervall:
p(6≤X≤26) = 0.99740944

---

p = 0.2		**n = 79**
k	**p(X=k)**	**p(x≤k)**
0	2e-8	2e-8
1	4.4e-7	4.6e-7
2	0.00000425	0.00000471
3	0.00002729	0.000032
4	0.00012962	0.00016162
5	0.00048609	0.00064771
6	0.00149877	0.00214648
7	0.00390751	0.006054
8	0.0087919	0.0148459
9	0.01733959	0.03218548
10	0.03034428	0.06252976
11	0.04758534	0.1101151
12	0.06741257	0.17752767
13	0.0868585	0.26438616
14	0.10236894	0.36675511
15	0.11089969	0.4776548
16	0.11089969	0.58855449
17	0.1027453	0.69129979
18	0.08847512	0.77977491

19	0.07101293	0.85078783
20	0.05325969	0.90404753
21	0.03740859	0.94145612
22	0.02465566	0.96611178
23	0.01527579	0.98138758
24	0.00891088	0.99029845
25	0.00490098	0.99519944
26	0.00254474	0.99774418
27	0.00124881	0.99899299
28	0.0005798	0.99957279
29	0.00025491	0.99982771
30	0.00010621	0.99993392
31	0.00004197	0.99997589
32	0.00001574	0.99999163
33	0.0000056	0.99999723
34	0.0000019	0.99999913
35	6.1e-7	0.99999974
36	1.9e-7	0.99999993
37	5e-8	0.99999998
38	1e-8	0.99999999
39	0	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1

66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 79**

Erwartungswert:
μ = 15.8

Standardabweichung:
σ = 3.555

1σ-Intervall:
p(13≤X≤19) = 0.67326017

2σ-Intervall:
p(9≤X≤22) = 0.95126589

3σ-Intervall:
p(6≤X≤26) = 0.99709647

---

p = 0.2		**n = 80**
k	**p(X=k)**	**p(x≤k)**
0	2e-8	2e-8
1	3.5e-7	3.7e-7
2	0.00000349	0.00000386
3	0.00002268	0.00002654
4	0.00010916	0.0001357
5	0.0004148	0.00055049
6	0.00129624	0.00184673
7	0.00342576	0.00527249
8	0.00781502	0.01308752
9	0.01563005	0.02871757
10	0.02774334	0.0564609
11	0.04413713	0.10059803
12	0.06344712	0.16404515
13	0.08296931	0.24701446
14	0.09926685	0.34628132
15	0.10919354	0.45547486
16	0.11089969	0.56637455
17	0.10437618	0.67075073
18	0.09132916	0.76207988

19	0.07450536	0.83658525
20	0.05681034	0.89339559
21	0.04057881	0.9339744
22	0.02720625	0.96118065
23	0.01715177	0.97833242
24	0.01018386	0.98851628
25	0.00570296	0.99421924
26	0.00301599	0.99723523
27	0.00150799	0.99874323
28	0.0007136	0.99945683
29	0.00031989	0.99977672
30	0.00013595	0.99991268
31	0.00005482	0.9999675
32	0.00002099	0.99998848
33	0.00000763	0.99999611
34	0.00000264	0.99999875
35	8.7e-7	0.99999962
36	2.7e-7	0.99999989
37	8e-8	0.99999997
38	2e-8	0.99999999
39	1e-8	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1

66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 80**

Erwartungswert:
μ = 16

Standardabweichung:
σ = 3.578

1σ-Intervall:
p(13≤X≤19) = 0.67254009

2σ-Intervall:
p(9≤X≤23) = 0.9652449

3σ-Intervall:
p(6≤X≤26) = 0.99668474

---

p = 0.2		**n = 81**
k	**p(X=k)**	**p(x≤k)**
0	1e-8	1e-8
1	2.9e-7	3e-7
2	0.00000286	0.00000316
3	0.00001884	0.00002201
4	0.00009186	0.00011387
5	0.00035367	0.00046754
6	0.00111995	0.00158748
7	0.00299986	0.00458734
8	0.00693717	0.01152451
9	0.01406704	0.02559156
10	0.02532068	0.05091224
11	0.04085837	0.09177061
12	0.05958512	0.15135573
13	0.07906487	0.2304206
14	0.09600735	0.32642795
15	0.1072082	0.43363615
16	0.11055846	0.54419461
17	0.10568088	0.64987549

18	0.09393856	0.74381405
19	0.07787012	0.82168417
20	0.06034934	0.88203352
21	0.04382512	0.92585864
22	0.02988076	0.9557394
23	0.01916266	0.97490206
24	0.01157744	0.98647951
25	0.00659914	0.99307865
26	0.00355338	0.99663203
27	0.00180959	0.99844163
28	0.00087248	0.99931411
29	0.00039863	0.99971274
30	0.00017274	0.99988549
31	0.00007105	0.99995653
32	0.00002775	0.99998429
33	0.0000103	0.99999459
34	0.00000364	0.99999822
35	0.00000122	0.99999944
36	3.9e-7	0.99999983
37	1.2e-7	0.99999995
38	3e-8	0.99999999
39	1e-8	1
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1

65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 81**

Erwartungswert:
μ = 16.2

Standardabweichung:
σ = 3.6

1σ-Intervall:
p(13≤X≤19) = 0.67032845

2σ-Intervall:
p(9≤X≤23) = 0.96337755

3σ-Intervall:
p(6≤X≤27) = 0.99797409

---

p = 0.2		**n = 82**
k	**p(X=k)**	**p(x≤k)**
0	1e-8	1e-8
1	2.3e-7	2.4e-7
2	0.00000235	0.00000259
3	0.00001565	0.00001824
4	0.00007726	0.0000955
5	0.00030131	0.0003968
6	0.00096669	0.00136349
7	0.00262388	0.00398737
8	0.00614971	0.01013708
9	0.01264107	0.02277815
10	0.02306995	0.0458481
11	0.03775083	0.08359893
12	0.05583977	0.1394387
13	0.07516892	0.21460763
14	0.09261885	0.30722648
15	0.10496803	0.41219451

16	0.10988841	0.52208292
17	0.1066564	0.62873931
18	0.09628702	0.72502634
19	0.08108381	0.80611015
20	0.0638535	0.86996365
21	0.04712996	0.91709361
22	0.03266963	0.94976325
23	0.02130628	0.97106953
24	0.01309449	0.98416402
25	0.0075948	0.99175882
26	0.00416254	0.99592136
27	0.00215835	0.99807971
28	0.0010599	0.99913961
29	0.0004934	0.99963302
30	0.00021792	0.99985094
31	0.00009139	0.99994232
32	0.00003641	0.99997874
33	0.00001379	0.99999253
34	0.00000497	0.9999975
35	0.0000017	0.9999992
36	5.6e-7	0.99999976
37	1.7e-7	0.99999993
38	5e-8	0.99999998
39	1e-8	0.99999999
40	0	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1

63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 82**

Erwartungswert:
μ = 16.4

Standardabweichung:
σ = 3.622

1σ-Intervall:
p(13≤X≤20) = 0.73052495

2σ-Intervall:
p(10≤X≤23) = 0.94829138

3σ-Intervall:
p(6≤X≤27) = 0.99768291

---

p = 0.2		**n = 83**
k	**p(X=k)**	**p(x≤k)**
0	1e-8	1e-8
1	1.9e-7	2e-7
2	0.00000192	0.00000212
3	0.00001299	0.00001511
4	0.00006494	0.00008004
5	0.0002565	0.00033654
6	0.00083361	0.00117015
7	0.00229244	0.00346259
8	0.00544454	0.00890714
9	0.0113428	0.02024993
10	0.02098418	0.04123411
11	0.03481466	0.07604877
12	0.05222198	0.12827075

13	0.07130309	0.19957384
14	0.08912887	0.28870271
15	0.1024982	0.3912009
16	0.10890433	0.50010524
17	0.1073028	0.60740804
18	0.0983609	0.70576893
19	0.08412445	0.78989339
20	0.06729956	0.85719295
21	0.05047467	0.90766762
22	0.0355617	0.94322932
23	0.02357895	0.96680828
24	0.01473685	0.98154512
25	0.00869474	0.99023986
26	0.00484899	0.99508885
27	0.00255919	0.99764804
28	0.00127959	0.99892763
29	0.0006067	0.99953434
30	0.00027302	0.99980735
31	0.00011669	0.99992405
32	0.00004741	0.99997145
33	0.00001832	0.99998977
34	0.00000673	0.9999965
35	0.00000236	0.99999886
36	7.9e-7	0.99999965
37	2.5e-7	0.99999989
38	8e-8	0.99999997
39	2e-8	0.99999999
40	1e-8	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1

60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 83**
Erwartungswert: μ = 16.6		
Standardabweichung: σ = 3.644		
1σ-Intervall: p(13≤X≤20) = 0.7289222		
2σ-Intervall: p(10≤X≤23) = 0.94655834		
3σ-Intervall: p(6≤X≤27) = 0.9973115		

---

p = 0.2		**n = 84**
k	**p(X=k)**	**p(x≤k)**
0	1e-8	1e-8
1	1.5e-7	1.6e-7
2	0.00000158	0.00000174
3	0.00001077	0.00001251
4	0.00005455	0.00006706
5	0.00021818	0.00028524
6	0.00071819	0.00100343
7	0.00200067	0.00300411
8	0.00481412	0.00781823

9	0.01016315	0.01798138
10	0.0190559	0.03703728
11	0.03204856	0.06908584
12	0.04874052	0.11782635
13	0.06748687	0.18531322
14	0.08556371	0.27087693
15	0.09982433	0.37070126
16	0.10762311	0.47832437
17	0.10762311	0.58594748
18	0.10014928	0.68609675
19	0.08697174	0.7730685
20	0.07066454	0.84373304
21	0.05383965	0.89757269
22	0.03854429	0.93611698
23	0.0259755	0.96209248
24	0.01650527	0.97859775
25	0.00990316	0.98850091
26	0.00561814	0.99411905
27	0.00301715	0.9971362
28	0.00153551	0.99867171
29	0.00074128	0.999413
30	0.00033975	0.99975275
31	0.00014796	0.99990071
32	0.00006126	0.99996197
33	0.00002413	0.99998611
34	0.00000905	0.99999516
35	0.00000323	0.99999839
36	0.0000011	0.99999949
37	3.6e-7	0.99999984
38	1.1e-7	0.99999996
39	3e-8	0.99999999
40	1e-8	1
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1

56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 84**

Erwartungswert:
μ = 16.8

Standardabweichung:
σ = 3.666

1σ-Intervall:
p(14≤X≤20) = 0.65841981

2σ-Intervall:
p(10≤X≤24) = 0.96061638

3σ-Intervall:
p(6≤X≤27) = 0.99685096

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p = 0.2		**n = 85**
k	**p(X=k)**	**p(x≤k)**
0	1e-8	1e-8
1	1.2e-7	1.3e-7
2	0.00000129	0.00000142
3	0.00000893	0.00001036

4	0.00004579	0.00005615
5	0.00018546	0.0002416
6	0.00061819	0.00085979
7	0.00174418	0.00260397
8	0.00425143	0.0068554
9	0.00909334	0.01594875
10	0.01727735	0.0332261
11	0.02945003	0.06267612
12	0.04540213	0.10807825
13	0.0637376	0.17181585
14	0.08194834	0.25376419
15	0.09697221	0.3507364
16	0.10606335	0.45679975
17	0.10762311	0.56442285
18	0.10164404	0.6660669
19	0.08960725	0.75567415
20	0.07392598	0.82960013
21	0.05720463	0.88680476
22	0.04160337	0.92840812
23	0.02848926	0.95689738
24	0.01839931	0.9752967
25	0.01122358	0.98652028
26	0.00647514	0.99299542
27	0.00353735	0.99653277
28	0.00183184	0.99836461
29	0.00090013	0.99926474
30	0.00042006	0.9996848
31	0.00018632	0.99987112
32	0.0000786	0.99994972
33	0.00003156	0.99998128
34	0.00001207	0.99999335
35	0.0000044	0.99999774
36	0.00000153	0.99999927
37	5.1e-7	0.99999977
38	1.6e-7	0.99999993
39	5e-8	0.99999998
40	1e-8	0.99999999
41	0	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1

51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 85**
Erwartungswert: μ = 17		
Standardabweichung: σ = 3.688		
1σ-Intervall: p(14≤X≤20) = 0.65778428		
2σ-Intervall: p(10≤X≤24) = 0.95934795		
3σ-Intervall: p(6≤X≤28) = 0.99812301		

p = 0.2		n = 86
k	p(X=k)	p(x≤k)
0	0	0
1	1e-7	1e-7
2	0.00000106	0.00000116
3	0.00000741	0.00000857
4	0.00003842	0.00004699
5	0.00015752	0.00020451
6	0.00053164	0.00073616
7	0.00151898	0.00225514
8	0.00374998	0.00600512
9	0.00812496	0.01413008
10	0.01564055	0.02977063
11	0.02701549	0.05678612
12	0.04221171	0.09899782
13	0.06007051	0.15906833
14	0.07830619	0.23737452
15	0.09396743	0.33134196
16	0.10424512	0.43558708
17	0.10731115	0.54289823
18	0.10283986	0.64573809
19	0.09201461	0.7377527
20	0.07706223	0.81481493
21	0.0605489	0.87536383
22	0.04472362	0.92008745
23	0.03111208	0.95119953
24	0.0204173	0.97161684
25	0.01265873	0.98427556
26	0.00742483	0.9917004
27	0.00412491	0.9958253
28	0.00217294	0.99799824
29	0.00108647	0.99908471
30	0.00051607	0.99960079
31	0.00023307	0.99983385
32	0.00010015	0.999934
33	0.00004097	0.99997497
34	0.00001597	0.99999093
35	0.00000593	0.99999686
36	0.0000021	0.99999896
37	7.1e-7	0.99999967
38	2.3e-7	0.9999999
39	7e-8	0.99999997
40	2e-8	0.99999999
41	1e-8	1
42	0	1
43	0	1
44	0	1

45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 86**
Erwartungswert: μ = 17.2		
Standardabweichung: σ = 3.709		

1σ-Intervall: p(14≤X≤20) = 0.6557466
2σ-Intervall: p(10≤X≤24) = 0.95748676
3σ-Intervall: p(7≤X≤28) = 0.99726209

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p = 0.2		**n = 87**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	8e-8	8e-8
2	8.7e-7	9.5e-7
3	0.00000614	0.00000709
4	0.00003222	0.0000393
5	0.0001337	0.00017301
6	0.00045682	0.00062983
7	0.00132151	0.00195134
8	0.00330378	0.00525512
9	0.00724996	0.01250509
10	0.01413743	0.02664252
11	0.0247405	0.05138302
12	0.03917246	0.09055548
13	0.05649875	0.14705423
14	0.07465906	0.22171329
15	0.09083519	0.31254847
16	0.10218958	0.41473805
17	0.10669795	0.521436
18	0.10373412	0.62517012
19	0.09417966	0.71934978
20	0.08005271	0.79940249
21	0.06385157	0.86325405
22	0.04788867	0.91114273
23	0.03383439	0.94497712
24	0.02255626	0.96753337
25	0.01421044	0.98174382
26	0.00847161	0.99021543
27	0.00478489	0.99500032
28	0.00256333	0.99756365
29	0.00130376	0.99886742
30	0.00063015	0.99949757
31	0.00028967	0.99978724
32	0.00012673	0.99991397
33	0.0000528	0.99996677
34	0.00002097	0.99998774
35	0.00000794	0.99999568
36	0.00000287	0.99999854
37	9.9e-7	0.99999953

38	3.2e-7	0.99999986
39	1e-7	0.99999996
40	3e-8	0.99999999
41	1e-8	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1

85	0	1
86	0	1
87	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 87**

Erwartungswert:
μ = 17.4

Standardabweichung:
σ = 3.731

1σ-Intervall:
p(14≤X≤21) = 0.71619982

2σ-Intervall:
p(10≤X≤24) = 0.95502829

3σ-Intervall:
p(7≤X≤28) = 0.99693383

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p = 0.2		**n = 88**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	7e-8	7e-8
2	7.1e-7	7.8e-7
3	0.00000508	0.00000586
4	0.000027	0.00003286
5	0.00011341	0.00014627
6	0.0003922	0.00053846
7	0.00114857	0.00168704
8	0.00290733	0.00459436
9	0.00646073	0.01105509
10	0.01275994	0.02381503
11	0.02261989	0.04643492
12	0.03628607	0.08272099
13	0.05303349	0.13575448
14	0.07102699	0.20678147
15	0.08759996	0.29438143
16	0.0999187	0.39430014
17	0.10579628	0.50009641
18	0.10432688	0.6044233
19	0.09609055	0.70051384
20	0.0828781	0.78339194
21	0.06709179	0.85048374
22	0.05108125	0.90156499
23	0.03664525	0.93821024
24	0.02481189	0.96302212
25	0.01587961	0.97890173
26	0.00961938	0.98852111
27	0.00552224	0.99404334
28	0.00300765	0.99705099
29	0.00155568	0.99860667

30	0.00076488	0.99937154
31	0.00035776	0.99972931
32	0.00015932	0.99988862
33	0.00006759	0.99995621
34	0.00002733	0.99998355
35	0.00001054	0.99999409
36	0.00000388	0.99999797
37	0.00000136	0.99999933
38	4.6e-7	0.99999979
39	1.5e-7	0.99999994
40	4e-8	0.99999998
41	1e-8	1
42	0	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
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81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 88**

Erwartungswert:
μ = 17.6

Standardabweichung:
σ = 3.752

1σ-Intervall:
p(14≤X≤21) = 0.71472926

2σ-Intervall:
p(11≤X≤25) = 0.9550867

3σ-Intervall:
p(7≤X≤28) = 0.99651252

---

p = 0.2		**n = 89**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	5e-8	6e-8
2	5.8e-7	6.4e-7
3	0.00000421	0.00000484
4	0.00002262	0.00002746
5	0.00009613	0.00012359
6	0.00033644	0.00046002
7	0.0009973	0.00145732
8	0.00255558	0.0040129
9	0.00575005	0.00976295
10	0.0115001	0.02126304
11	0.0206479	0.04191094
12	0.03355284	0.07546378
13	0.04968401	0.12514778
14	0.06742829	0.19257607
15	0.08428537	0.27686144
16	0.09745496	0.3743164
17	0.10462076	0.47893716
18	0.10462076	0.58355792
19	0.09773782	0.68129573
20	0.08552059	0.76681632

21	0.07024906	0.83706538
22	0.05428336	0.89134874
23	0.03953245	0.93088119
24	0.02717856	0.95805975
25	0.01766606	0.97572581
26	0.01087142	0.98659723
27	0.00634166	0.99293889
28	0.00351056	0.99644946
29	0.00184607	0.99829553
30	0.00092304	0.99921857
31	0.00043919	0.99965775
32	0.00019901	0.99985676
33	0.00008593	0.99994269
34	0.00003538	0.99997808
35	0.0000139	0.99999198
36	0.00000521	0.99999719
37	0.00000187	0.99999906
38	6.4e-7	0.9999997
39	2.1e-7	0.99999991
40	7e-8	0.99999997
41	2e-8	0.99999999
42	1e-8	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1

68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 89**

Erwartungswert:
μ = 17.8

Standardabweichung:
σ = 3.774

1σ-Intervall:
p(15≤X≤21) = 0.6444893

2σ-Intervall:
p(11≤X≤25) = 0.95446277

3σ-Intervall:
p(7≤X≤29) = 0.99783551

---

p = 0.2		**n = 90**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	4e-8	4e-8
2	4.7e-7	5.2e-7
3	0.00000348	0.000004
4	0.00001894	0.00002294
5	0.00008142	0.00010436
6	0.00028838	0.00039274
7	0.00086513	0.00125786
8	0.00224392	0.00350178
9	0.00511115	0.00861294
10	0.01035009	0.01896302

11	0.01881834	0.03778136
12	0.03097185	0.06875321
13	0.04645777	0.11521098
14	0.06387944	0.17909042
15	0.08091395	0.26000437
16	0.09482104	0.35482541
17	0.1031876	0.45801301
18	0.10462076	0.56263377
19	0.09911441	0.66174817
20	0.08796403	0.74971221
21	0.07330336	0.82301557
22	0.0574765	0.88049207
23	0.04248263	0.9229747
24	0.02964934	0.95262403
25	0.01956856	0.9721926
26	0.01223035	0.98442295
27	0.00724762	0.99167056
28	0.00407678	0.99574735
29	0.00217897	0.99792632
30	0.00110764	0.99903396
31	0.00053596	0.99956992
32	0.00024704	0.99981696
33	0.00010855	0.99992551
34	0.00004549	0.999971
35	0.0000182	0.9999892
36	0.00000695	0.99999615
37	0.00000254	0.99999869
38	8.8e-7	0.99999957
39	2.9e-7	0.99999987
40	9e-8	0.99999996
41	3e-8	0.99999999
42	1e-8	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1

58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 90**

Erwartungswert:
$\mu = 18$

Standardabweichung:
$\sigma = 3.795$

1σ-Intervall:
$p(15 \le X \le 21) = 0.64392515$

2σ-Intervall:
$p(11 \le X \le 25) = 0.95322957$

3σ-Intervall:
$p(7 \le X \le 29) = 0.99753358$

---

p = 0.2		**n = 91**
k	**p(X=k)**	**p(x≤k)**
0	0	0

1	3e-8	4e-8
2	3.9e-7	4.2e-7
3	0.00000288	0.00000331
4	0.00001585	0.00001915
5	0.00006893	0.00008808
6	0.00024699	0.00033506
7	0.00074978	0.00108484
8	0.00196816	0.003053
9	0.00453771	0.00759071
10	0.0093023	0.01689301
11	0.01712469	0.03401769
12	0.02854115	0.06255884
13	0.04336059	0.10591943
14	0.0603951	0.16631453
15	0.07750705	0.24382158
16	0.09203962	0.3358612
17	0.10151429	0.43737549
18	0.10433413	0.54170961
19	0.10021568	0.64192529
20	0.09019411	0.7321194
21	0.0762355	0.8083549
22	0.06064187	0.86899677
23	0.0454814	0.91447817
24	0.03221599	0.94669417
25	0.02158472	0.96827888
26	0.01369799	0.98197688
27	0.00824416	0.99022104
28	0.00471095	0.99493199
29	0.00255853	0.99749052
30	0.00132191	0.99881243
31	0.00065029	0.99946272
32	0.00030483	0.99976755
33	0.00013625	0.9999038
34	0.00005811	0.9999619
35	0.00002366	0.99998556
36	0.0000092	0.99999476
37	0.00000342	0.99999818
38	0.00000121	0.99999939
39	4.1e-7	0.99999981
40	1.3e-7	0.99999994
41	4e-8	0.99999998
42	1e-8	1
43	0	1
44	0	1
45	0	1
46	0	1
47	0	1

48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 91**
Erwartungswert: μ = 18.2		

Standardabweichung: σ = 3.816
1σ-Intervall: p(15≤X≤22) = 0.70268224
2σ-Intervall: p(11≤X≤25) = 0.95138588
3σ-Intervall: p(7≤X≤29) = 0.99715546

---

p = 0.2		**n = 92**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	3e-8	3e-8
2	3.2e-7	3.5e-7
3	0.00000238	0.00000273
4	0.00001325	0.00001598
5	0.00005831	0.00007429
6	0.00021137	0.00028566
7	0.00064922	0.00093488
8	0.00172448	0.00265937
9	0.0040238	0.00668317
10	0.00834938	0.01503255
11	0.01556021	0.03059276
12	0.02625785	0.05685061
13	0.0403967	0.09724731
14	0.0569882	0.15423551
15	0.07408466	0.22832017
16	0.08913311	0.31745327
17	0.09961935	0.41707263
18	0.10377016	0.52084279
19	0.10103937	0.62188216
20	0.09219842	0.71408058
21	0.07902722	0.7931078
22	0.0637606	0.85686839
23	0.0485135	0.90538189
24	0.03486908	0.94025097
25	0.02371097	0.96396194
26	0.01527534	0.97923728
27	0.00933493	0.98857221
28	0.00541759	0.9939898
29	0.00298902	0.99697882
30	0.00156923	0.99854805
31	0.00078462	0.99933267
32	0.00037392	0.99970659
33	0.00016996	0.99987655
34	0.00007373	0.99995028
35	0.00003055	0.99998083
36	0.00001209	0.99999292

37	0.00000458	0.9999975
38	0.00000166	0.99999915
39	5.7e-7	0.99999972
40	1.9e-7	0.99999991
41	6e-8	0.99999997
42	2e-8	0.99999999
43	1e-8	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
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84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
92	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 92**

Erwartungswert:
μ = 18.4

Standardabweichung:
σ = 3.837

1σ-Intervall:
p(15≤X≤22) = 0.70263289

2σ-Intervall:
p(11≤X≤26) = 0.96420473

3σ-Intervall:
p(7≤X≤29) = 0.99669315

---

p = 0.2		**n = 93**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	2e-8	2e-8
2	2.6e-7	2.8e-7
3	0.00000197	0.00000225
4	0.00001108	0.00001333
5	0.0000493	0.00006263
6	0.00018076	0.00024339
7	0.00056165	0.00080504
8	0.00150943	0.00231447
9	0.00356394	0.00587841
10	0.00748426	0.01336267
11	0.01411804	0.02748071
12	0.02411833	0.05159904
13	0.03756893	0.08916797
14	0.0536699	0.14283787
15	0.07066537	0.21350324
16	0.08612342	0.29962665
17	0.0975221	0.39714876
18	0.10294	0.50008876
19	0.10158553	0.60167428
20	0.09396661	0.69564089
21	0.08166146	0.77730235
22	0.06681392	0.84411627
23	0.05156292	0.89567919

24	0.03759796	0.93327715
25	0.02594259	0.95921975
26	0.01696246	0.97618221
27	0.01052301	0.98670522
28	0.00620106	0.99290628
29	0.00347473	0.99638101
30	0.00185319	0.9982342
31	0.00094154	0.99917574
32	0.00045606	0.9996318
33	0.00021075	0.99984256
34	0.00009298	0.99993554
35	0.00003918	0.99997472
36	0.00001578	0.9999905
37	0.00000608	0.99999658
38	0.00000224	0.99999882
39	7.9e-7	0.99999961
40	2.7e-7	0.99999988
41	9e-8	0.99999996
42	3e-8	0.99999999
43	1e-8	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
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63	0	1
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69	0	1
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78	0	1
79	0	1
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81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
92	0	1
93	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 93**
Erwartungswert: μ = 18.6		
Standardabweichung: σ = 3.857		
1σ-Intervall: p(15≤X≤22) = 0.70127841		
2σ-Intervall: p(11≤X≤26) = 0.96281954		
3σ-Intervall: p(8≤X≤30) = 0.99742916		

---

p = 0.2		**n = 94**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	2e-8	2e-8
2	2.1e-7	2.3e-7
3	0.00000163	0.00000186
4	0.00000926	0.00001112
5	0.00004165	0.00005277
6	0.00015447	0.00020724
7	0.00048547	0.00069271
8	0.00131987	0.00201258
9	0.00315303	0.00516562

10	0.0067002	0.01186582
11	0.01279129	0.02465711
12	0.02211827	0.04677537
13	0.03487881	0.08165418
14	0.05044971	0.13210389
15	0.06726627	0.19937016
16	0.08303181	0.28240197
17	0.09524237	0.37764434
18	0.10185642	0.47950076
19	0.10185642	0.58135718
20	0.09549039	0.67684757
21	0.08412249	0.76097006
22	0.06978343	0.83075349
23	0.05461312	0.88536661
24	0.04039095	0.92575756
25	0.02827367	0.95403123
26	0.01875849	0.97278972
27	0.0118109	0.98460062
28	0.00706545	0.99166607
29	0.00402	0.99568607
30	0.0021775	0.99786356
31	0.00112387	0.99898743
32	0.00055315	0.99954059
33	0.00025982	0.9998004
34	0.00011653	0.99991694
35	0.00004994	0.99996688
36	0.00002046	0.99998735
37	0.00000802	0.99999537
38	0.00000301	0.99999837
39	0.00000108	0.99999945
40	3.7e-7	0.99999982
41	1.2e-7	0.99999995
42	4e-8	0.99999998
43	1e-8	1
44	0	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
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67	0	1
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76	0	1
77	0	1
78	0	1
79	0	1
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83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
92	0	1
93	0	1
94	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 94**

Erwartungswert:
μ = 18.8

Standardabweichung:
σ = 3.878

1σ-Intervall:
p(15≤X≤22) = 0.6986496

2σ-Intervall:
p(12≤X≤26) = 0.94813261

3σ-Intervall:
$p(8 \le X \le 30) = 0.99717086$

p = 0.2		n = 95
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	1e-8	2e-8
2	1.7e-7	1.9e-7
3	0.00000134	0.00000153
4	0.00000773	0.00000926
5	0.00003517	0.00004444
6	0.00013191	0.00017634
7	0.00041927	0.00059561
8	0.00115299	0.00174861
9	0.0027864	0.00453501
10	0.00599077	0.01052578
11	0.01157307	0.02209885
12	0.02025287	0.04235172
13	0.0323267	0.07467842
14	0.04733553	0.12201395
15	0.06390296	0.18591691
16	0.0798787	0.26579561
17	0.09280025	0.35859586
18	0.10053361	0.45912947
19	0.10185642	0.56098589
20	0.0967636	0.65774949
21	0.08639607	0.74414556
22	0.07265124	0.8167968
23	0.05764718	0.87444398
24	0.04323539	0.91767937
25	0.03069712	0.94837649
26	0.02066153	0.96903802
27	0.01320042	0.98223844
28	0.00801454	0.99025298
29	0.00462909	0.99488207
30	0.002546	0.99742806
31	0.0013346	0.99876266
32	0.0006673	0.99942996
33	0.00031848	0.99974844
34	0.00014519	0.99989363
35	0.00006326	0.99995689
36	0.00002636	0.99998325
37	0.00001051	0.99999376
38	0.00000401	0.99999777
39	0.00000147	0.99999924
40	5.1e-7	0.99999975
41	1.7e-7	0.99999992

42	6e-8	0.99999998
43	2e-8	0.99999999
44	1e-8	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
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73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
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81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1

89	0	1
90	0	1
91	0	1
92	0	1
93	0	1
94	0	1
95	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 95**

Erwartungswert:
μ = 19

Standardabweichung:
σ = 3.899

1σ-Intervall:
p(16≤X≤22) = 0.6308799

2σ-Intervall:
p(12≤X≤26) = 0.94693917

3σ-Intervall:
p(8≤X≤30) = 0.99683245

---

p = 0.2		**n = 96**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	1e-8	1e-8
2	1.4e-7	1.5e-7
3	0.00000111	0.00000126
4	0.00000645	0.00000772
5	0.00002969	0.0000374
6	0.00011256	0.00014996
7	0.0003618	0.00051176
8	0.00100625	0.00151801
9	0.00245972	0.00397773
10	0.00534989	0.00932762
11	0.01045661	0.01978423
12	0.01851691	0.03830115
13	0.02991194	0.06821308
14	0.04433376	0.11254684
15	0.06058947	0.17313632
16	0.07668355	0.24981987
17	0.09021594	0.34003581
18	0.09898694	0.43902275
19	0.10159186	0.54061461
20	0.09778216	0.63839677
21	0.08846958	0.72686635
22	0.07540021	0.80226656
23	0.06064799	0.86291455
24	0.04611774	0.90903229
25	0.03320478	0.94223707

26	0.02266865	0.96490571
27	0.01469264	0.97959835
28	0.00905172	0.98865007
29	0.00530618	0.99395625
30	0.00296262	0.99691887
31	0.00157688	0.99849574
32	0.00080076	0.9992965
33	0.00038825	0.99968475
34	0.00017985	0.99986459
35	0.00007965	0.99994424
36	0.00003374	0.99997798
37	0.00001368	0.99999166
38	0.00000531	0.99999697
39	0.00000197	0.99999894
40	7e-7	0.99999965
41	2.4e-7	0.99999989
42	8e-8	0.99999996
43	2e-8	0.99999999
44	1e-8	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1

73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
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86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
92	0	1
93	0	1
94	0	1
95	0	1
96	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 96**

Erwartungswert:
μ = 19.2

Standardabweichung:
σ = 3.919

1σ-Intervall:
p(16≤X≤23) = 0.68977823

2σ-Intervall:
p(12≤X≤27) = 0.95981412

3σ-Intervall:
p(8≤X≤30) = 0.9964071

---

p = 0.2		**n = 97**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	1e-8	1e-8
2	1.2e-7	1.3e-7
3	9.2e-7	0.00000104
4	0.00000538	0.00000643
5	0.00002504	0.00003147
6	0.00009598	0.00012745
7	0.00031195	0.0004394
8	0.00087736	0.00131676

9	0.00216903	0.00348579
10	0.00477186	0.00825765
11	0.00943527	0.01769291
12	0.01690485	0.03459776
13	0.02763293	0.06223069
14	0.0414494	0.10368009
15	0.05733833	0.16101842
16	0.07346474	0.23448316
17	0.08750947	0.32199262
18	0.09723274	0.41922536
19	0.10107087	0.52029624
20	0.0985441	0.61884034
21	0.09033209	0.70917243
22	0.07801408	0.78718651
23	0.06359844	0.85078495
24	0.04902379	0.89980874
25	0.03578737	0.93559611
26	0.02477587	0.96037199
27	0.01628784	0.97665983
28	0.0101799	0.98683973
29	0.00605529	0.99289501
30	0.00343133	0.99632634
31	0.00185402	0.99818037
32	0.00095598	0.99913635
33	0.00047075	0.9996071
34	0.00022153	0.99982862
35	0.00009969	0.99992831
36	0.00004292	0.99997123
37	0.00001769	0.99998892
38	0.00000698	0.99999591
39	0.00000264	0.99999855
40	9.6e-7	0.99999951
41	3.3e-7	0.99999984
42	1.1e-7	0.99999995
43	4e-8	0.99999998
44	1e-8	1
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
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56	0	1
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66	0	1
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72	0	1
73	0	1
74	0	1
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87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
92	0	1
93	0	1
94	0	1
95	0	1
96	0	1
97	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 97**
Erwartungswert: μ = 19.4		
Standardabweichung: σ = 3.94		

1σ-Intervall: p(16≤X≤23) = 0.68976653
2σ-Intervall: p(12≤X≤27) = 0.95896691
3σ-Intervall: p(8≤X≤31) = 0.99774097

---

p = 0.2		**n = 98**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	1e-8	1e-8
2	9e-8	1e-7
3	7.6e-7	8.6e-7
4	0.00000449	0.00000535
5	0.00002111	0.00002646
6	0.0000818	0.00010825
7	0.00026876	0.00037701
8	0.00076428	0.00114129
9	0.00191069	0.00305198
10	0.00425129	0.00730327
11	0.00850258	0.01580586
12	0.01541093	0.03121679
13	0.02548731	0.05670411
14	0.0386861	0.09539021
15	0.05416054	0.14955075
16	0.07023946	0.21979021
17	0.08470052	0.30449073
18	0.09528808	0.39977882
19	0.10030325	0.50008206
20	0.09904946	0.59913152
21	0.0919745	0.69110601
22	0.08047768	0.7715837
23	0.06648156	0.83806526
24	0.05193872	0.89000399
25	0.03843465	0.92843864
26	0.02697817	0.95541681
27	0.01798545	0.97340226
28	0.01140149	0.98480375
29	0.00688021	0.99168396
30	0.00395612	0.99564008
31	0.00216949	0.99780956
32	0.00113559	0.99894515
33	0.00056779	0.99951295
34	0.00027137	0.99978432
35	0.00012406	0.99990837
36	0.00005427	0.99996265
37	0.00002274	0.99998539

38	0.00000912	0.99999451
39	0.00000351	0.99999802
40	0.00000129	0.99999931
41	4.6e-7	0.99999977
42	1.6e-7	0.99999993
43	5e-8	0.99999998
44	2e-8	0.99999999
45	0	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
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63	0	1
64	0	1
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72	0	1
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85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
92	0	1
93	0	1
94	0	1
95	0	1
96	0	1
97	0	1
98	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 98**

Erwartungswert:
μ = 19.6

Standardabweichung:
σ = 3.96

1σ-Intervall:
p(16≤X≤23) = 0.68851451

2σ-Intervall:
p(12≤X≤27) = 0.9575964

3σ-Intervall:
p(8≤X≤31) = 0.99743255

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p = 0.2		**n = 99**
k	**p(X=k)**	**p(x≤k)**
0	0	0
1	1e-8	1e-8
2	8e-8	8e-8
3	6.2e-7	7.1e-7
4	0.00000374	0.00000445
5	0.00001779	0.00002224
6	0.00006966	0.0000919
7	0.00023136	0.00032326
8	0.00066517	0.00098843
9	0.00168141	0.00266984
10	0.00378317	0.00645302
11	0.00765233	0.01410534
12	0.01402926	0.02813461
13	0.02347204	0.05160664
14	0.03604635	0.08765299
15	0.05106566	0.13871865
16	0.06702367	0.20574232
17	0.08180831	0.28755063
18	0.09317057	0.3807212

19	0.09930021	0.48002141
20	0.09930021	0.57932163
21	0.09338949	0.67271112
22	0.08277705	0.75548816
23	0.06928079	0.82476895
24	0.05484729	0.87961624
25	0.04113547	0.92075171
26	0.02926947	0.95002118
27	0.01978399	0.96980517
28	0.01271828	0.98252345
29	0.00778446	0.99030791
30	0.00454094	0.99484885
31	0.00252681	0.99737566
32	0.00134237	0.99871803
33	0.00068135	0.99939939
34	0.00033066	0.99973004
35	0.00015352	0.99988356
36	0.00006823	0.99995179
37	0.00002904	0.99998084
38	0.00001185	0.99999269
39	0.00000463	0.99999732
40	0.00000174	0.99999906
41	6.2e-7	0.99999968
42	2.2e-7	0.9999999
43	7e-8	0.99999997
44	2e-8	0.99999999
45	1e-8	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1

66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1
92	0	1
93	0	1
94	0	1
95	0	1
96	0	1
97	0	1
98	0	1
99	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 99**

Erwartungswert:
μ = 19.8

Standardabweichung:
σ = 3.98

1σ-Intervall:
p(16≤X≤23) = 0.6860503

2σ-Intervall:
p(12≤X≤27) = 0.95569983

3σ-Intervall:
p(8≤X≤31) = 0.9970524

p = 0.2		n = 100
k	p(X=k)	p(x≤k)
0	0	0
1	1e-8	1e-8
2	6e-8	7e-8
3	5.1e-7	5.8e-7
4	0.00000312	0.0000037
5	0.00001498	0.00001868
6	0.00005928	0.00007796
7	0.00019902	0.00027699
8	0.00057841	0.0008554
9	0.00147816	0.00233356
10	0.00336282	0.00569638
11	0.0068785	0.01257488
12	0.01275388	0.02532875
13	0.02158348	0.04691224
14	0.03353148	0.08044372
15	0.04806179	0.12850551
16	0.06383207	0.19233758
17	0.07885138	0.27118896
18	0.09089812	0.36208708
19	0.09807429	0.46016137
20	0.09930021	0.55946158
21	0.09457163	0.65403322
22	0.08489953	0.73893275
23	0.07198004	0.81091279
24	0.05773399	0.86864678
25	0.04387783	0.91252462
26	0.03164267	0.94416728
27	0.02168109	0.96584837
28	0.01413142	0.97997979
29	0.00877123	0.98875102
30	0.00518964	0.99394066
31	0.00292964	0.9968703
32	0.00157926	0.99844956
33	0.00081356	0.99926312
34	0.0004008	0.99966391
35	0.00018895	0.99985286
36	0.00008529	0.99993815
37	0.00003688	0.99997503
38	0.00001529	0.99999032
39	0.00000608	0.99999639
40	0.00000232	0.99999871
41	8.5e-7	0.99999956
42	3e-7	0.99999985
43	1e-7	0.99999995
44	3e-8	0.99999999

45	1e-8	1
46	0	1
47	0	1
48	0	1
49	0	1
50	0	1
51	0	1
52	0	1
53	0	1
54	0	1
55	0	1
56	0	1
57	0	1
58	0	1
59	0	1
60	0	1
61	0	1
62	0	1
63	0	1
64	0	1
65	0	1
66	0	1
67	0	1
68	0	1
69	0	1
70	0	1
71	0	1
72	0	1
73	0	1
74	0	1
75	0	1
76	0	1
77	0	1
78	0	1
79	0	1
80	0	1
81	0	1
82	0	1
83	0	1
84	0	1
85	0	1
86	0	1
87	0	1
88	0	1
89	0	1
90	0	1
91	0	1

92	0	1
93	0	1
94	0	1
95	0	1
96	0	1
97	0	1
98	0	1
99	0	1
100	0	1
k	**p(X=k)**	**p(x≤k)**
p = 0.2		**n = 100**

Erwartungswert:
μ = 20

Standardabweichung:
σ = 4

1σ-Intervall:
p(16≤X≤24) = 0.74014127

2σ-Intervall:
p(12≤X≤28) = 0.96740492

3σ-Intervall:
p(8≤X≤32) = 0.99817257

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