# Gacha Pull Simulation Results

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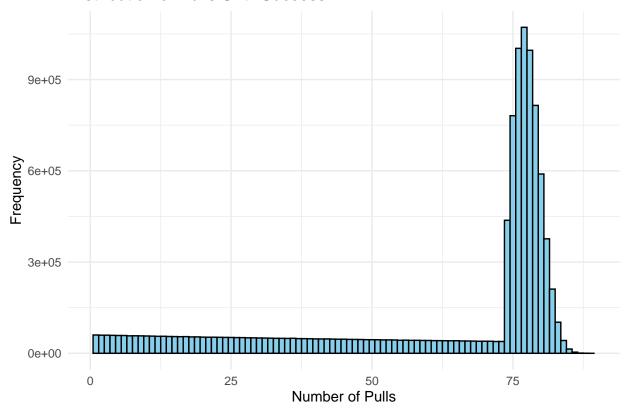
### **Simulation Results**

#### **Summary Statistics**

Metric	Value
Total Simulations	1.000e+07
Average Pulls	6.224e+01
Median Pulls	7.600e + 01
Standard Deviation	2.428e + 01
Minimum Pulls	1.000e+00
Maximum Pulls	8.900e+01

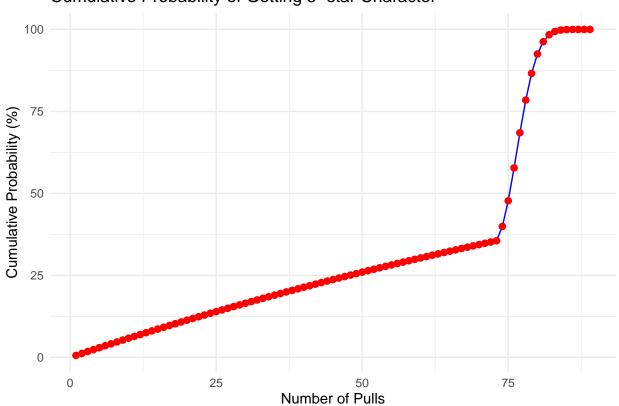
## Distribution Plot

## Distribution of Pulls Until Success



## Pull Frequency Distribution

# Cumulative Probability of Getting 5-star Character



Number of Pulls	Frequency	Percentage $(\%)$	Cumulative Frequency	Cumulative Probability
1	60186	0.6019	60186	0.6019
2	59549	0.5955	119735	1.1973
3	59562	0.5956	179297	1.7930
4	58979	0.5898	238276	2.3828
5	58551	0.5855	296827	2.9683
6	58462	0.5846	355289	3.5529
7	57370	0.5737	412659	4.1266
8	57554	0.5755	470213	4.7021
9	57276	0.5728	527489	5.2749
10	56886	0.5689	584375	5.8438
11	56496	0.5650	640871	6.4087
12	55825	0.5582	696696	6.9670
13	55913	0.5591	752609	7.5261
14	55277	0.5528	807886	8.0789
15	54994	0.5499	862880	8.6288
16	54669	0.5467	917549	9.1755
17	54826	0.5483	972375	9.7238
18	53867	0.5387	1026242	10.2624
19	53972	0.5397	1080214	10.8021
20	53180	0.5318	1133394	11.3339
21	52902	0.5290	1186296	11.8630
22	52904	0.5290	1239200	12.3920

Number of Pulls	Frequency	Percentage (%)	Cumulative Frequency	Cumulative Probability
23	52500	0.5250	1291700	12.9170
24	52263	0.5226	1343963	13.4396
25	52011	0.5201	1395974	13.9597
26	51729	0.5173	1447703	14.4770
27	51561	0.5156	1499264	14.9926
28	50880	0.5088	1550144	15.5014
29	50740	0.5074	1600884	16.0088
30	50327	0.5033	1651211	16.5121
31	50141	0.5014	1701352	17.0135
32	49732	0.4973	1751084	17.5108
33	49255	0.4926	1800339	18.0034
34	49161	0.4916	1849500	18.4950
35	48899	0.4890	1898399	18.9840
36	49315	0.4932	1947714	19.4771
37	48270	0.4827	1995984	19.9598
38	48177	0.4818	2044161	20.4416
39	47782	0.4778	2091943	20.9194
40	47308	0.4731	2139251	21.3925
41	47035	0.4704	2186286	21.8629
42	47286	0.4729	2233572	22.3357
43	46735	0.4674	2280307	22.8031
44	46343	0.4634	2326650	23.2665
45	46417	0.4642	2373067	23.7307
46	45709	0.4571	2418776	24.1878
47	45551	0.4555	2464327	24.6433
48	45319	0.4532	2509646	25.0965
49	44899	0.4490	2554545	25.5454
50	44682	0.4468	2599227	25.9923
51	44550	0.4455	2643777	26.4378
52	44105	0.4411	2687882	26.8788
53	44059	0.4406	2731941	27.3194
54	43825	0.4383	2775766	27.7577
55	42786	0.4279	2818552	28.1855
56	43255	0.4326	2861807	28.6181
57	42662	0.4266	2904469	29.0447
58	42723	0.4272	2947192	29.4719
59	42272	0.4227	2989464	29.8946
60	42117	0.4212	3031581	30.3158
61	41664	0.4166	3073245	30.7324
62	41614	0.4161	3114859	31.1486
63	41367	0.4137	3156226	31.5623
64	41148	0.4115	3197374	31.9737
65	41363	0.4136	3238737	32.3874
66	40529	0.4053	3279266	32.7927
67	40368	0.4037	3319634	33.1963
68	40109	0.4011	3359743	33.5974
69	39602	0.3960	3399345	33.9934
70	39740	0.3974	3439085	34.3908
71	39585	0.3959	3478670	34.7867
72	38791	0.3879	3517461	35.1746
73	38929	0.3893	3556390	35.5639
74	437309	4.3731	3993699	39.9370

Number of Pulls	Frequency	Percentage (%)	Cumulative Frequency	Cumulative Probability
75	781091	7.8109	4774790	47.7479
76	1002536	10.0254	5777326	57.7733
77	1071651	10.7165	6848977	68.4898
78	996123	9.9612	7845100	78.4510
79	814953	8.1495	8660053	86.6005
80	589450	5.8945	9249503	92.4950
81	376359	3.7636	9625862	96.2586
82	211058	2.1106	9836920	98.3692
83	102204	1.0220	9939124	99.3912
84	42119	0.4212	9981243	99.8124
85	14058	0.1406	9995301	99.9530
86	3787	0.0379	9999088	99.9909
87	790	0.0079	9999878	99.9988
88	115	0.0012	9999993	99.9999
89	7	0.0001	10000000	100.0000

#### **Execution Details**

## Simulation completed in 1138.13 seconds