

Birthday Problem Data

Number of People N	Probability of No Common Birthdays $P = \frac{365P_N}{365^N}$	Probability of at least One Common Birthday $P = 1 - \frac{365P_N}{365^N}$
5	97.3%	2.7%
10	88.3%	11.7%
15	74.7%	25.3%
20	58.9%	41.1%
25	43.1%	56.9%
30	29.4%	70.6%
40	10.9%	89.1%
50	3.0%	97.0%
70	0.08%	99.92%
100	0.00003%	99.99997%