

MLE for Geom. Distr. of sample size $n = 300$

k	Observed frequency	Predicted frequency
1	99	105.88
2	69	68.51
3	47	44.33
4	28	28.69
5	27	18.56
6	9	12.01
7	8	7.77
8	5	5.03
9	5	3.25
10	3	2.11

Real $p = 0.3333$ and MLE for $p = 0.3529$