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Quiz & Worksheet - Theoretical Probability

1. There are 95 white pieces of paper in a hat along with 5 blue pieces of paper. What is the theoretical probability that a blind-folded person draws a blue piece of paper on the first attempt?

- 5 out of 100, which is 5/100 or 1/20 (5%)
- 5 out of 95, which is 5/95 or 1/19 (5.3%)
- 1 out of 100, which is 1/100 (1%)
- 5 out of 5, which is 5/5 (100%)

2. Jake has been flipping a coin for 3 hours straight and he is about to flip it for the 500th time. What is the theoretical probability that Jake gets heads on this last flip?



- 1 out of 2 (50%) because no matter how many times a coin is flipped, each flip has just two possible outcomes, heads or tails.
- 2 out of 500 (0.4%) because there are two possible outcomes, heads or tails in 500 flips.
- 2 out of 1 (200%) because there are two possible outcomes, heads or tails and one flip.
- 3 out of 500 (0.6%) because it has taken 3 hours to flip 500 times.

3. A bag has been filled with 35 red marbles, 25 green marbles, 25 blue marbles and 15 orange marbles. What is the theoretical probability that someone can reach in and randomly pick an orange marble?

- 15 out of 100, which is 15/100 (15%)
- 15 out of 25, which is 15/25 (60%)
- 1 out of 100, which is 1/100 (1%)
- 15 out of 85, which is 15/85 (18%)

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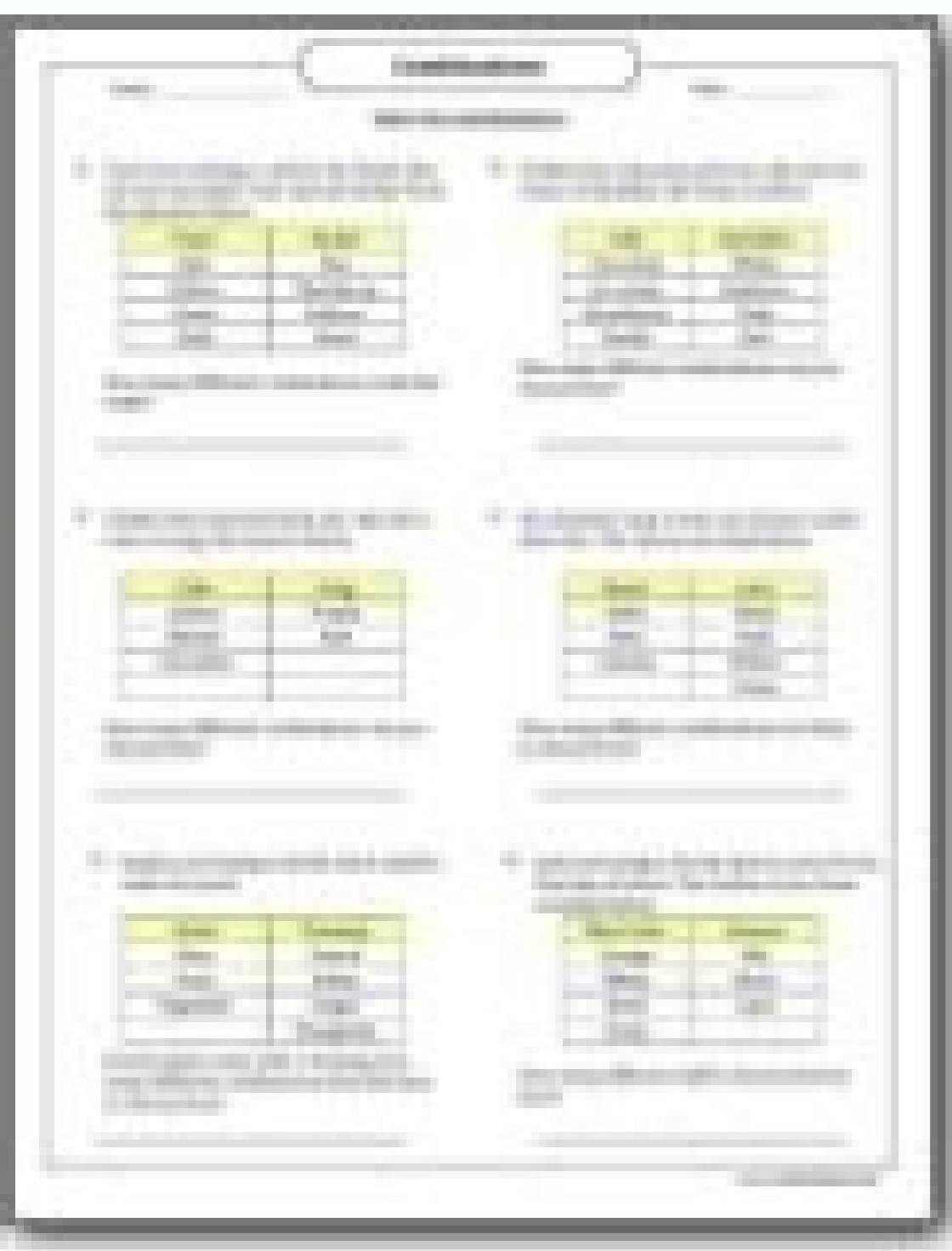
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N=10

P

X	.1	.2	.3	.4	.5	.6
0	.349	.107	.028	.006	.001	.000
1	.736	.376	.149	.046	.011	.002
2	.930	.678	.383	.167	.055	.012
3	.987	.879	.650	.382	.172	.055
4	.998	.967	.850	.633	.377	.166
5	1.000	.994	.953	.834	.623	.367
6	1.000	.999	.989	.945	.828	.618
7	1.000	1.000	.998	.988	.945	.833
8	1.000	1.000	1.000	.998	.989	.954
9	1.000	1.000	1.000	1.000	.999	.994
10	1.000	1.000	1.000	1.000	1.000	1.000



		Binomial Probabilities											
		p											
n	x	.01	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
2	0	.990	.982	.918	.640	.490	.360	.250	.160	.090	.040	.010	.002
	1	.020	.095	.188	.320	.420	.480	.500	.480	.420	.320	.180	.095
3	0	.970	.857	.729	.512	.343	.216	.125	.064	.027	.008	.001	0+
	1	.029	.135	.243	.384	.441	.432	.375	.288	.189	.096	.027	.007
4	0	.961	.815	.656	.410	.240	.130	.062	.026	.008	.002	0+	0+
	1	.039	.171	.292	.410	.412	.346	.250	.154	.076	.026	.004	0+
5	0	.951	.774	.598	.328	.168	.078	.031	.010	.002	0+	0+	0+
	1	.045	.204	.328	.410	.360	.259	.156	.077	.028	.006	0+	0+
6	0	.941	.744	.548	.285	.132	.054	.021	.005	.001	0+	0+	0+
	1	.059	.256	.452	.515	.468	.346	.230	.132	.051	.008	.001	0+
7	0	.930	.717	.512	.260	.108	.040	.013	.002	0+	0+	0+	0+
	1	.070	.283	.488	.540	.492	.374	.256	.154	.076	.026	.004	0+
8	0	.919	.695	.480	.230	.080	.028	.007	.001	0+	0+	0+	0+
	1	.081	.305	.520	.570	.522	.404	.286	.184	.096	.036	.004	0+
9	0	.908	.673	.458	.200	.060	.018	.003	0+	0+	0+	0+	0+
	1	.092	.327	.542	.600	.542	.424	.306	.204	.116	.046	.006	0+
10	0	.897	.651	.436	.180	.050	.012	.001	0+	0+	0+	0+	0+
	1	.103	.349	.564	.630	.572	.454	.336	.234	.146	.066	.006	0+
11	0	.886	.625	.410	.160	.040	.008	0+	0+	0+	0+	0+	0+
	1	.114	.371	.590	.660	.602	.484	.366	.264	.176	.086	.006	0+
12	0	.875	.603	.394	.140	.030	.005	0+	0+	0+	0+	0+	0+
	1	.125	.397	.606	.690	.642	.524	.406	.304	.216	.126	.026	0+
13	0	.864	.581	.378	.120	.020	.003	0+	0+	0+	0+	0+	0+
	1	.136	.419	.622	.720	.672	.554	.436	.334	.246	.156	.036	0+
14	0	.853	.559	.362	.100	.010	.001	0+	0+	0+	0+	0+	0+
	1	.147	.441	.638	.750	.702	.584	.466	.364	.276	.186	.046	0+
15	0	.842	.537	.346	.080	.005	0+	0+	0+	0+	0+	0+	0+
	1	.158	.463	.654	.780	.732	.614	.496	.394	.306	.216	.076	0+
16	0	.831	.515	.330	.060	.001	0+	0+	0+	0+	0+	0+	0+
	1	.169	.485	.670	.800	.752	.634	.516	.414	.326	.236	.096	0+
17	0	.820	.493	.314	.040	0+	0+	0+	0+	0+	0+	0+	0+
	1	.181	.507	.686	.830	.782	.664	.546	.444	.356	.266	.106	0+
18	0	.809	.471	.298	.020	0+	0+	0+	0+	0+	0+	0+	0+
	1	.192	.529	.702	.860	.812	.694	.576	.474	.386	.296	.116	0+
19	0	.798	.449	.282	.010	0+	0+	0+	0+	0+	0+	0+	0+
	1	.203	.551	.718	.890	.842	.724	.606	.504	.416	.326	.126	0+
20	0	.787	.427	.266	0+	0+	0+	0+	0+	0+	0+	0+	0+
	1	.214	.573	.734	.920	.872	.754	.636	.534	.446	.356	.146	0+
21	0	.776	.405	.250	0+	0+	0+	0+	0+	0+	0+	0+	0+
	1	.225	.595	.750	.950	.902	.784	.666	.564	.476	.386	.166	0+
22	0	.765	.383	.234	0+	0+	0+	0+	0+	0+	0+	0+	0+
	1	.236	.617	.766	.970	.922	.804	.686	.584	.496	.406	.186	0+
23	0	.754	.361	.218	0+	0+	0+	0+	0+	0+	0+	0+	0+
	1	.247	.639	.782	.990	.942	.824	.706	.604	.516	.426	.206	0+
24	0	.743	.339	.202	0+	0+	0+	0+	0+	0+	0+	0+	0+
	1	.258	.661	.798	1.000	.952	.834	.716	.614	.526	.436	.216	0+
25	0	.732	.317	.186	0+	0+	0+	0+	0+	0+	0+	0+	0+
	1	.269	.683	.814	1.000	.952	.834	.716	.614	.526	.436	.216	0+

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