

## Leading Digit Analysis

### Benford's Law Proportions

Digit	1	2	3	4	5	6	7	8	9
Proportion	0.30103	0.176091	0.124939	0.09691	0.079181	0.066947	0.057992	0.051153	0.045757491

### Dataset 1 Proportions

Digit	1	2	3	4	5	6	7	8	9	Chi-Square p-value	Prediction (Real/Fake)
Actual Count	86	43	37	30	31	17	21	21	14	0.474727213	Real
Expected Count	90.309	52.82738	37.48162	29.073	23.75437	20.08404	17.39758	15.34576	13.72725		

### Dataset 2 Proportions

Digit	1	2	3	4	5	6	7	8	9	Chi-Square p-value	Prediction (Real/Fake)
Actual Count	0	0	0	0	7	20	15	9	0	7.50465E-36	Fake
Expected Count	15.35253	8.980654	6.371876	4.942411	4.038244	3.414286	2.957589	2.608779	2.333632		

### Dataset 3 Proportions

Digit	1	2	3	4	5	6	7	8	9	Chi-Square p-value	Prediction (Real/Fake)
Actual Count	23	31	23	23	20	25	20	27	29	5.48347E-18	Fake
Expected Count	66.52763	38.91617	27.61146	21.41711	17.49906	14.79524	12.81622	11.30471	10.11241		

### Dataset 4 Proportions

Digit	1	2	3	4	5	6	7	8	9	Chi-Square p-value	Prediction (Real/Fake)
Actual Count	18	10	6	4	5	4	6	3	5	0.80985793	Real
Expected Count	18.36283	10.74157	7.621263	5.911511	4.830056	4.083754	3.537509	3.120304	2.791207		