

$$M(X) = \sum_{i=1}^{50} x_i * p_i = \sum_{i=1}^{50} x_i * \frac{1}{50} = \mathbf{0.45124}$$

– mean value; close to 0.5 as array values are between [0, 1]

$$D[X] = M[(X - M(X))^2] = \mathbf{0.08225}$$

– squared measure of the spread of a distribution; here values are close to each other

$$\sigma = \sqrt{\frac{\sum_{i=1}^{50} (x_i - M(X))^2}{50}} = \mathbf{0.2868}$$

– measure of the spread of a distribution; this is average deviation from the mean value

0.4483951	0.18446063	0.13628133	0.53962826	0.70747793	0.7919444	0.8540493	0.18277643
0.79491685	0.43110765	0.45019555	0.17196785	0.80320642	0.13771628	0.25546573	
0.49346755	0.06626148	0.15908526	0.15490176	0.89283788	0.9903038	0.57634992	
0.65353821	0.34067029	0.27016422	0.05780976	0.41762828	0.31283129	0.75248078	
0.72018359	0.93902744	0.45667921	0.32398716	0.41102322	0.94324123	0.77441304	
0.09537954	0.55206907	0.33156881	0.24036553	0.14106255	0.50368114	0.56636661	
0.04177781	0.03308054	0.53864531	0.08582921	0.78711442	0.13992536	0.90903214	