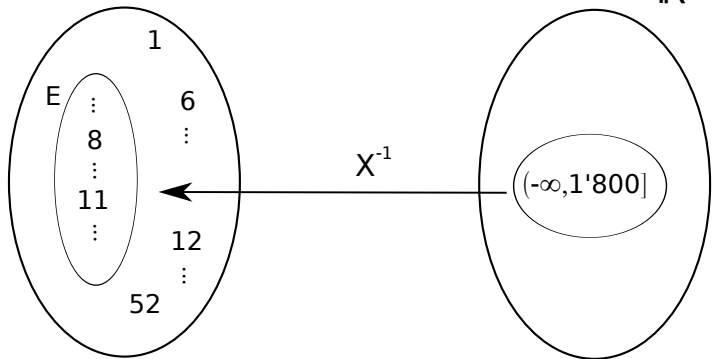


$$\Omega = \{1, \dots, N\}$$

 \mathbb{R}


$$P_X((-\infty, 1'800]) = P(E)$$