P1: The probability that at least one diese is 3.

$$P = \frac{5}{6} \left(3 \text{ golvene durini} \right)$$
 $\Omega = \frac{1}{6} \left(3 \text{ golve durini} \right)$

$$(\frac{5}{5}) \cdot (\frac{5}{6})^5 \cdot (\frac{1}{6})^{(5-5)} = 1 \cdot (\frac{5}{6})^5 \cdot 1 = (\frac{5}{6})^5$$
 $(\frac{5}{6})^5 = 0,40189$
 $1 - 0,40189 = 0,59812$
 $(1-Ununted simplier)$

$$\begin{pmatrix} \Omega \\ \times \end{pmatrix} \cdot P^{\times} \cdot q^{(n-x)}$$

N = (Nam ray times the ward happened x = (Number of occurrous is n events)

 $P(AIB) = \frac{P(AnB)}{P(B)}$

P2: The probability that as least one dies is 3 given one of the dies is accen.

$$(\frac{5}{5}) \cdot (\frac{1}{2})^{\frac{5}{5}} \cdot (\frac{1}{2})^{\frac{5}{5}} = (\frac{1}{2})^{\frac{5}{5}} = 0,03125$$

 $(\frac{5}{5}) \cdot (\frac{7}{6})^5 \cdot (\frac{1}{6})^5 = (\frac{5}{6})^5 = 0,40189959201$

$$P(AIB) = \frac{P(AnB)}{P(B)} = \frac{0.56687242999}{0.96895} = 0.5851586353445$$

P3: The Probabily that at boost one dies in 3 given only one of the dies in even.

$$P = \frac{2}{3} \left(3 \text{ galare} \right) \quad 0 = 4$$

$$9 = \frac{1}{3} \left(3 \text{ galare} \right) \quad \times = 4$$

Coul of 5 dies, only one in over, the rest is add 1 = 4 Because we eliminate one die diedly.

$$\binom{6}{4} \cdot (\frac{2}{3})^6 \cdot (\frac{1}{6})^6 = \frac{16}{81}$$

$$1 - \frac{16}{81} = \frac{65}{81} = 0.8024691$$