P45. 28. 荔推  $P_{n+1} = P_n \cdot O + (I-P_n) \frac{1}{3}$ = - = Pn + = : Pn+1 - 1 = - 3 (Pn-4)  $P_n: \left( \begin{array}{c} P_n - \frac{1}{4} \end{array} \right) \cdot \left( -\frac{1}{3} \right)^n + \frac{1}{4}$ 将 n=7代入,得: P7=182 31. 波 A=取出全是白球 B = 排出3点  $P(A) = \frac{1}{6} \frac{C_4^1}{C_{10}^1} + \frac{1}{6} \frac{C_4^2}{C_{10}^2} + \frac{1}{6} \frac{C_4^3}{C_{10}^3} + \frac{1}{6} \frac{C_4^4}{C_6^6}$  $=\frac{1}{6} \times \frac{4}{10} + \frac{1}{6} + \frac{6}{45} + \frac{7}{6} \times \frac{4}{120} + \frac{7}{6} \times \frac{7}{210} = \frac{7}{21}$ P(AB): 6 × C3 = 160  $P(B|A) = P(AB) = \frac{7}{120}$ 35. 设 A= A写上加号 B= 主持人看到加号 = 专义[ 立+ 寺+寺+寺] <u>13</u> = 81 P(B) = = = x 14 + 13 = 41 = 81 PCA / B) = 13

= 0.476544

## P96

2.

1 P(x = k) (keZA k>1)= k+1

$$P(x=1) = \frac{3}{C_4^2} = \frac{1}{2}$$

$$P(x=2) = \frac{2}{C_4^3} = \frac{1}{3}$$

## 6.

X 可能取值为 0.1.2.3 P(X=0)= 孔 = 章

$$P(x=0) = \frac{9}{12} = \frac{3}{4}$$

$$P(x=2) = \frac{3}{12} \times \frac{2}{11} \times \frac{9}{10} = \frac{9}{220}$$

$$P(X=3) = \frac{3}{12} \times \frac{2}{11} \times \frac{1}{10} \times 1 = \frac{1}{220}$$

## 12.

掷三颗骸子三数和为青楼的棚车为立

属于10年分布,由期望可知,平均需要 2次

# 16. 本题即为丰二项分布中奇项减偶项的概率

$\mathbb{P}\left(P+q\right)^{n}=C_{n}^{0}q^{n}+C_{n}^{1}Pq^{n-1}+\ldots+C_{n}^{n}P^{n}$
$(q-p)^n = C_n^o q^n - C_n^l p q^{n-1} + \dots + (\varepsilon_l)^n C_n^n p^n$
5得 F [=(F-2P) <sup>n</sup>
私充
共 7次试验, 最后-次-
$\therefore C_6^2 \cdot (0.4)^3 \times (0.6)^9$
= 0.12 <del>14</del> 16