P(A) = 0'6 P(B) = 0'3 P(C) = 0'1 Probabilidad de que at menos 1 de eu el 6lanco:

P(AUBUC) = P(A) + P(B) + P(C) - P(ANC) --P(ANB) - P(BNC) = 0'6+0'3+0'1 - 03.07 -0'6.0'3-0'3.0'1=0'76+0'3.0'6.0'1= 0'6+0'3+0'1-0'6.0'3-0'6-0'1-0'3-0'1+0'6.0'3.0'1= `=0'748 · (· ni · inemitum del

2) Por et teorema de la probabilidad compresta, Sa bemos que :

$$P\left[\prod_{i=1}^{n}Ai\right] = \frac{1}{6} \cdot \frac{1}{5} \cdot \frac{1}{4} \cdot \frac{1}{3} \cdot \frac{1}{2} = \frac{1}{720}$$

3) 40% - Pelo (UG: 0 - P(A) = 0'4 25% - 0jes azules - [P(B) =0'25 5% - Pelo rubio y ojosazoles - Plans=005

a)
$$P(A/B) = \frac{P(ANB)}{P(B)} = \frac{0.05}{0.25} = 0.2$$



d) (P/A-PEB) HUP (B-PEA) / Z

P(B/A) & P(P(B) Z P(A) P(B)

Pro6. de al menos uno = P(AUB) - P(ANB) = = P(A)+P(B)-P(ANB) - P(ANB) = 0'4+0'25 -2.0'05 = = 0'55

25% TO Hutación ojos TP(A)=0'25 50% TO Hutación alas TP(B)=0'5 40% de mutación ojos To mutación alas.

a) A(Al menos una).

P(ANB)=40% de 25% = 0'25.0'4=0'1

P(AUB) = P(A) + P(B) - P(ADB) = 0'25 +0'5 -0'1 = 0'65

b) Mutación ojos pero no alas:

P(0jos / Alas) = P(0jos) - P(0jos nAlas) = 0'25 - 0'1=0's

5)
$$P(usai A) = 0.2$$
 $P(usai B) = P(no usai A) = 1 - 0.2 = 0.8$
 $P(compiai A) = \frac{2}{3} \implies P(compiai A) = \frac{2}{15}$
 $P(compiai B) = \frac{2}{5} \implies P(compiai B) = \frac{2}{15}$
 $P(b)$
 $P(b)$
 $P(b)$
 $P(b)$

6)
$$J \rightarrow 18B \ y \ Z \ N$$
 $Z \rightarrow 9B \ y \ J \ N$

So extrice we do b segura y se deposita on a pri troia

$$P(sas blank | sake do a uno) = \frac{9}{10} \cdot \frac{19}{21} + \frac{1}{10} \cdot \frac{19}{21} = \frac{9 \cdot 19 + 18}{210} = 0.9$$

7) $U_1 : 5B \ y 5N \ U_2 : 6B \ y 4N \ U_3 : 7B \ y 3N$

a)

$$P(sub to blank) = \frac{1}{10} \cdot \frac{1}{9} \cdot \frac{1}{3} \cdot \frac{1}{9} \cdot \frac{1}{9} \cdot \frac{1}{10} \cdot \frac{1}{9} \cdot \frac{1}{10} \cdot$$

$$\frac{1}{3} \cdot \left(\frac{4}{10} \cdot \frac{6}{9} \cdot \frac{5}{8} \cdot \frac{4}{7} + \frac{6}{10} \cdot \frac{4}{9} \cdot \frac{5}{3} \cdot \frac{4}{7} + \frac{6}{10} \cdot \frac{5}{9} \cdot \frac{4}{3} \cdot \frac{4}{10} \right)$$

$$= \frac{1}{3} \cdot \left(\frac{1970}{5040} \right)$$

$$= \frac{1}{3} \cdot \left(\frac{1970}{5040} \right)$$

$$= 0.3404$$
Scanned by CamScanner

P(injector) =
$$\frac{2}{3}$$
 =>> P(injector) = $\frac{1}{3}$

P(mejorar | injector) = P(mejorar | injector) = 0,5

P(mejorar | injector) = 0,25

P(injector | emperiodo) = P(injector | emperiodo)

P(injector | emperiodo) = P(injector | emperiodo)

P(injector | emperiodo) = $\frac{3}{4}$

P(injector) = P(injector) = $\frac{1}{6}$

P(injector) = P(injector) = $\frac{1}{6}$

P(injector) = P(injector)

$$\frac{2}{3} - \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$$

$$\frac{1}{2} = \frac{1}{2} = \frac{6}{8} = \frac{3}{4}$$

$$\frac{1}{6} + \frac{1}{2} = \frac{3}{6} = \frac{3}{4}$$

$$P(U_{1} \cap N) = \frac{N}{N+1} \cdot \frac{6}{10} \cdot \frac{5}{9} = \frac{3c}{90} \cdot \frac{N}{N+1} = \frac{N}{3(N+1)}$$

$$P(U_{2} \cap N) = \frac{1}{N+1} \cdot \frac{5}{10} \cdot \frac{4}{9} = \frac{2c}{90} \cdot \frac{1}{N+1} = \frac{2}{9(N+1)}$$

$$P(N) = P(U_{1} \cap N) + P(U_{2} \cap N) = \frac{N}{3(N+1)} + \frac{2}{9(N+1)} = \frac{3N+2}{9(N+1)}$$

$$P(N^{5}|N) = \frac{b(N^{5}|N)}{b(N)} = \frac{3N^{5}}{3N^{5}} = \frac{3}{3} = \frac{3}{4} \iff N^{5} = \frac{3}{3} \iff N^{5} = \frac{3}{4}$$

10)
$$1 \text{ Gajos} \rightarrow 8B \text{ 4D}$$

 $2 \text{ Gajos} \rightarrow 6B \text{ 6D}$
 $3 \text{ Gajos} \rightarrow 4B \text{ 8D}$
 $P(6B60 | 2B | 1D) = \frac{P(6B60 \cap 2B | 1D)}{P(2B | 1D)} = \frac{432}{6 \cdot (\frac{6^{3}}{12} \cdot \frac{12}{12} \cdot \frac{12}{12})} = \frac{432}{6 \cdot (\frac{1072}{1728})} = \frac{1}{6 \cdot (\frac{1072}{1728})}$

77:

PKAN: lasser dades B: sacar suma de 4 $P(A_1) = \frac{7}{2}$ $P(A_3) = \frac{7}{2}$ $P(A_4) = \frac{7}{2}$

 $P(A_1 \cap B) = \frac{7}{2} \cdot \frac{1}{6} = \frac{7}{72}$

 $P(A_8 \cap B) = \frac{7}{8} \left(\frac{1}{6}, \frac{1}$

P(A, NB) = $\frac{1}{26} \left(\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \right) = \frac{7}{20736}$

 $P[A_4|B] = \frac{888031646^{7/20736}}{1/1247/48 + 7/576 + 7/808000} = \frac{7/20736}{2797/20736} = \frac{7}{2797/20736}$

M

Moneda:

-> K blances

X -> 211 blances

2° Moneda: 1 (1)

W. K. DILL K

C - 1 h blantes negros
X -> 2h blantes negros

$$P(negra) = \frac{1}{4} \cdot \left(\frac{h}{1+2h}\right) + \frac{1}{4} \cdot \left(\frac{2h}{2k+2h}\right) + \frac{1}{4} \cdot \left(\frac{2h}{2k+2h}\right) + \frac{1}{4} \cdot \left(\frac{2h}{2k+2h}\right)$$