Formule

parmutac; =
$$[20: A \xrightarrow{\sim} A3] = n!$$

$$B \subseteq A \Rightarrow [A - B] = |A| - |B|$$

$$|A \times B| = |A||B|$$

St neurogenih izborov podmnozice k od $n = \binom{n}{k}$

multinomski n_1 tipa 1 n_2 tipa 2,... n_k tipa k# per mule c_j^2 neu regen $=\frac{n!}{n_a!...n_k!}$

J= & whe, salety, riba, zelenjava, sladoled,

predjed mess terhoa)

projel judic

2.3.2 je of moth, h h.da

1 kup kart 52 kart. Karte razdelino ne 4 igrelee valu 1,5: 13 1. hollo nãos laho berte tako razdelmo

2. When the him well notice have sen energy tipe (phister, bit kno)

h! (57) (35) (26) (13)=

 $=\frac{52! (52-13)! \dots}{13! (52-13)! 13! \dots 15} = \frac{52!}{(13!)^4} 4!$

2. 1, 1 4!

Destroyevice no Kiki

Nejmonj dva presivolazinola

eneli zaodnic (25 zrh

2
25.25 = 625

50

702-62570

Ц.

2 rdezi, 3 zelene, 5 madrh 1). # metaret le de pro rded lohi intiden prod mazors

2.
$$\frac{8!}{1!2!5!}$$
3. $\frac{7!}{2!5!} + 2 \cdot \frac{7!}{4!1!2!}$
R ZZ

 $\frac{\binom{10}{4} \cdot 6}{2} = \frac{10.8 \cdot 9.7}{234 \cdot 1} \cdot 6 = \frac{1260}{2} = 630$ $\frac{\binom{10}{4} \cdot 6}{2} = \frac{10!}{5! \cdot 5!} \cdot 4 = \frac{10.9.8.7}{5.4.3.2} \cdot 4 = \frac{10.9.8.7}{5.4$

i) motrosti de la prua rdeca lute rulcoen pel relue relevo

$$(\frac{10}{5}) \cdot (\frac{4}{2}) = \frac{6}{2} - \frac{1}{5} = \frac{10!}{5!} \left(\frac{1}{3!2!} - \frac{1}{5!}\right) = \frac{10!}{5!} \left(\frac{1}{3!2!} - \frac{1}{5!}\right) = \frac{10!}{5!} \left(\frac{1}{3!2!} - \frac{1}{5!}\right) = \frac{10!}{5!} = \frac{10!}{5!} \left(\frac{1}{3!2!} - \frac{1}{5!}\right) = \frac{10!}{5!} \left(\frac{1}{3!2!} - \frac{1}{5!}\right)$$

$$\frac{10!}{3!5!2!} - \binom{10}{5} = \frac{10!}{5!} \left(\frac{1}{3!2!} - \frac{1}{5!} \right) = \frac{10!}{5!} \left(\frac{5!}{5!2!} - \frac{10}{3!2} \right) = \frac{10!}{5!} \left(\frac{5!}{5!2!} - \frac{10}{3!2} \right) = \frac{10!}{5!} \left(\frac{5!}{5!2!} - \frac{10}{3!2!} \right) = \frac{10!}{5!} \left(\frac{5!}{5!2!} - \frac{10}{3!2!} \right) = \frac{10!}{5!2!} \left(\frac{5!}{5!2!} - \frac{10}{3!2!} - \frac{10!}{5!2!} - \frac{10!}{5!2!} \right) = \frac{10!}{5!2!} \left(\frac{5!}{5!2!} - \frac{10!}{5!2!} - \frac{1$$

$$= \frac{10!}{5!} \frac{4.5-2}{5!2!} = \frac{10!}{5!5!} \frac{18}{2}$$

: Zherena 2

i)
$$Q = \emptyset$$

$$Q = \begin{pmatrix} V \\ 2 \end{pmatrix} \qquad V = \begin{cases} r, r, z, b, b, b, b \end{cases}$$

ii) nejrý rdeca:
$$\frac{3}{9} = \frac{1}{3}$$

$$R_{n} = \frac{1}{3}$$
 large zelene: $\frac{8}{3} \cdot \frac{1}{8} = \frac{1}{3}$

$$P(R_1 \cup Z_2) = P(R_1) + P(Z_2) - P(R_1 \cap Z_2)$$

 $P(R_1 \cap Z_2) : \frac{3}{3} \cdot \frac{1}{8}$

$$P(...) = \frac{4}{3} - \frac{3}{8 \cdot 3} = \frac{25}{8 \cdot 9}$$

X-k

$$\int C_{j,k} = \int \int \frac{1}{2} \left(\frac{n+1}{2} \right)^{j-1}$$

$$\overline{C}_{ik} = \left(\frac{n}{n+2}\right)^{j-1} \frac{2}{n+2} \left(\frac{n+1}{n+2}\right)^{k-j-1} \left(\frac{1}{n+2}\right) =$$

$$Y(C_{j,k}) = 2 \quad \text{flake is } j_{k,n}$$

$$C_{1} = \left(\frac{n}{n}\right)^{j-1} \frac{2}{2} \left(\frac{n+1}{n+1}\right)^{k}$$

$$(\overline{C}_{jk})$$
=? -flok ve j_k , n = $(\frac{n}{2})^{j-1}$ $\frac{2}{2}$ $(n+1)^{k}$

 $= \frac{2 \cdot n^{j-1}}{(n+2)^{j+k-j-1+1}} (n+1)^{k-j-1} = 2n^{j-1} \frac{(n+1)^{k-j-1}}{(n+2)^k}$

 $P(x,k) = P(UC_{i,k}) = \sum_{i=1}^{k-1} P(C_{i,k}) = \frac{2}{(n+2)^k} \sum_{i=1}^{k} n^{j-1} (n+1)^{kr-1}$

 $n^{j-1}(n+1)^{k-j-1} = \frac{n^{j}}{n(n+1)^{j}} (n+1)^{k-1} = \left(\frac{n}{n+1}\right)^{j} (n+1)^{k-1}$

 $2\frac{(n+1)^{k}}{(n+3)^{k}} =$

 $= \frac{2(n+1)^{k-1}}{n(n+2)^k} \frac{1 - \left(\frac{n}{n+n}\right)^k}{1 - \frac{n}{n+1}} = \frac{2((n+1)^k - n^*)}{n(n+2)^k}$

 $P(\bar{C}_{i=1}^{k}, \bar{C}_{i,k}) = P(x=k) - P(\bar{C}_{1,k}) = \frac{2(n+1)^{k-1} - N^{k-1}}{(n+2)^{k}}$

2 n (n+2)k ((n+1)k(n+1) - nk) = 1 n(n+2)k(n+1)k+1 -nk)

cz: 2 (n+2) ~ ((n+1) k-1 (n+2) k - nk-1) =



$$K...k$$
 near $P(A|K) = 1$
 $L...l$ $P(A|L) = T$

$$P(V_2|V_2) = \frac{P(V_3 \cap V_2)}{P(V_2)} = \frac{P(V_a)}{P(V_2)}$$

$$P(V_2) = P(V_2|C) P(C) + P(V_2|L) P(L) =$$

$$= 1.p_{+}(1-p)(1-r)$$

$$\frac{1 \cdot \rho + (1-r)^{2}(1-\rho)}{\beta(v_{3}|v_{2}) = \frac{\rho + (1+r)^{2}(1-\rho)}{\rho + (1+r)(1-\rho)}$$