### housunatopuka

W; P E.P. = 1



Hago, yuetb Bamkas crutat 6 esticas

akkypai 40

crometer 4 gartomesers 1 Trabund

 $A = \{\alpha_1, \alpha_2, \dots, \alpha_k\}$ B = {B, , B2, ..., Bn}

ROTHER 63876 1 08 BELT 43 A UM 43 B => n+k cnoco506

mpaburo crooke kus

euse ogue uz B

hpaburo Yerko merus => h.K

### Inpa miteria

$$P(AYE) = \frac{m}{h} = \frac{10^3}{12^3(0)^3} = \frac{1}{12^3}$$

$$h = 12^3 \cdot 10^3$$

$$m = 10^3$$

### Inpantetue

## 2 Spukusun Dupuxne

### I hpanne mue

3 mt.

# 3 npamketue Auguk 101

Auguk 101 ny 20 Buya uz 11 yfetob

Dokazatb:

Hangera 1150 11 hyrobus & ybeta 1150 11 hyrobus pazhera ybetob

Tyct6 ket ku Toro ku 670000 10 1792, Kaxgoro => 100 (10 Kpacoh)

3 Pazue menus

B= 26,,..., Bn & Bamen no Pagole OTSopa

Sez kurtyr  $A_n^k = n \cdot (n-1) \cdot ... (n-(k-1))$ 

\* c nobtopekypy  $\widehat{A}_{n}=\widehat{A}_{n}=n\cdot n\cdot n\cdot ...\cdot n=n$ 

Bce of rekth

3 npampe tue

16 Konatg

A16 = 16.15.14

4) Tepectakobky

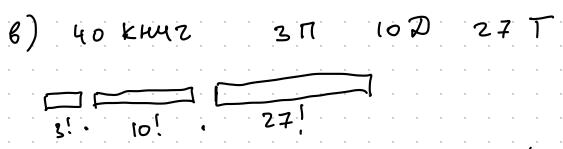
$$A_{N}^{n} = P(n) = n \cdot (n-1) \cdot (n-2) \cdot \dots \cdot \Delta = n$$

nepectateo 6 Ky Sez no 8 Topetun

$$P(n_1,...,n_k) = \frac{n!}{h_1! \cdot h_2! \cdot ... \cdot n_k!} - c$$
 no b To perus eus

19 npampe tue

38: 3



Mopigok re bamen

Вихенки

Sez MOBTO Peteur

$$C_{n}^{k} = \frac{A_{n}^{k}}{k!} = \frac{h \cdot (h \cdot 1)(h \cdot 2) \cdot ... (h \cdot k+1)}{k!} \cdot \frac{(h \cdot k)!}{(h \cdot k)!} = \frac{h!}{k! \cdot (h \cdot k)!}$$

In pante tue

CKOMKO CNOWSOB OSUE Ha?

Inpamile tul of bygorocter Paxat nykyy  $\hat{C}_{4}^{7} = C_{7+4-1}^{7}$ Threp negobuh Bakogupyen hokynku: nneckoluga 1101110077 1101011011 Crutaen rucho kogupo Bok  $\frac{10!}{7! - 3!} = C_{10}^{7} = C_{h+k-1}^{2}$ In parmetue Octatio BKE roez8 10 80 20 KOB  $P(s \text{ Barot nycTou}) = \frac{m}{n} = \frac{1A1}{1921}$  $N = 10.10.10.10 = 10^{10} = \overline{A}_{10}^{10}$  $m = 10 \cdot 9 \cdot \frac{2}{10} \cdot 8! = 10! \cdot \frac{2}{10}$ 

1 2 1 1 1 2 0 8!

### Infamerue

### Inpa meture

Domino 4 urpora

28 kocien V urpok 4 kocien

CKOMKO CNOCOSOB PAZZATE?

$$C_{28}^{7} \cdot C_{21}^{7} \cdot C_{14}^{7} \cdot C_{7}^{7} = \frac{28!}{7!24!} \cdot \frac{27!}{7!44!} \cdot \frac{3!}{7!7!} \cdot \frac{3!}{7!7!} = \frac{28!}{(7!)^{4}}$$

3 y panketue



Apryp + Phyapy 12 renobek

Hago octoboguit murueccy.
5 renoble 6 noxog

3 renober

0.0.0.0.0 4 Hago 0.00.000