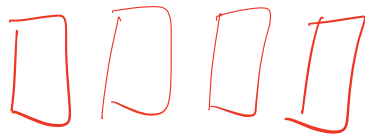


MISSISSIPPI

4 trucs
dans 4 cases

ABBA



$$4 \cdot 3 \cdot 2 \cdot 1 = 4!$$

$A_1 B_1 B_2 A_2$

24 permutations

$A_1 A_2 \underbrace{B_1 B_2}_{2!}$
 $A_2 A_1 B_1 B_2$

$$\frac{24}{2! \cdot 2!} = 6$$

$B_1 A_1 B_2 A_2$
 $B_2 A_1 B_1 A_2$

AABB
ABAB
BAAB
BBAA
BABA

~~M' S S' S S' P P'~~

M I S P
I S P
I S
I S

M'

4! 4! 2!

Permutations

avec répétitions

5.18 6)

$\underbrace{AAA}_3 \underbrace{BBBBB}_5 \underbrace{CC}_2$

$10!$

$3! 5! 2!$