

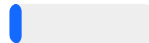
CIR2- Dénombrement-I (copy) (copy)

Number of participants: 26




1

Laquelle de ces égalités est correcte ?


$$\binom{n+1}{k+1} = \binom{n+1}{k} + \binom{n}{k+1}$$


9% 2 votes

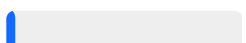
✓

$$\binom{n+1}{k+1} = \binom{n}{k} + \binom{n}{k+1}$$


87% 20 votes

$$\binom{n+1}{k+1} = \binom{n}{k+1} \times \binom{n}{k+1}$$


0% 0 votes

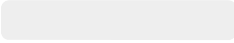
$$\binom{n+1}{k+1} = \binom{n}{k} \times \binom{n}{k+1}$$


4% 1 vote

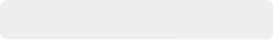


2

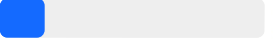
Quelle est la formule exacte ?

$$(a+b)^n = \sum_{k=1}^n \binom{n}{k} (a^k b^{n-k})$$




0% 0 votes

$$(a+b)^n = \sum_{k=0}^n \binom{k}{n} a^k b^{n-k}$$


0% 0 votes

$$(a+b)^n = \sum_{k=1}^n \binom{k}{n} a^k b^{n-k}$$


17% 4 votes


$$(a+b)^n = \sum_{k=0}^n \binom{n}{k} (a^k b^{n-k})$$


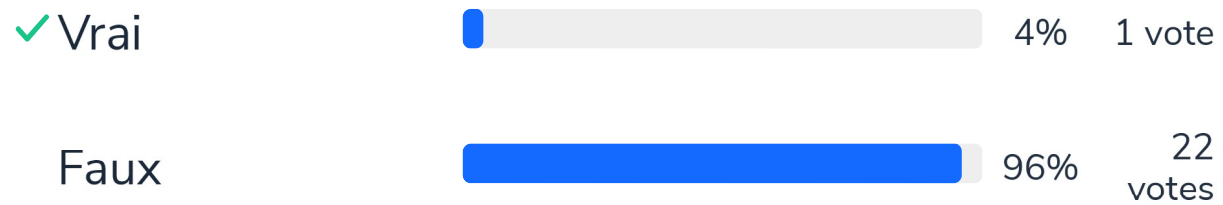
83% 19 votes

?

3

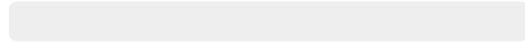
Vrai ou faux :

$$\binom{n}{k} = \binom{n}{n-k}$$

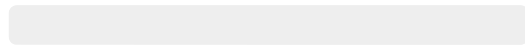


4

Avec 8 chiffres binaires (un octet), combien de caractères peut-on coder ?

 $8!$ 

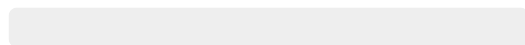
0%

0
votes $2!$ 

0%

0
votes✓ 2^8 

100%

24
votes 8^2 

0%

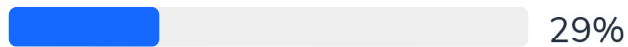
0
votes

?

5

Combien d'anagrammes du
mot M A T H S peut-on
former (sans tenir compte de
leur signification) ?

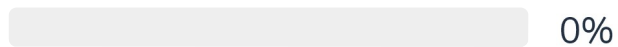
$$5^5$$

6
votes

$$\checkmark 5!$$

15
votes

$$\sum_{k=1}^5 k$$

0
votes

6

Combien d'anagrammes du
mot C O O L peut-on former
(sans tenir compte de leur
signification) ?

 $4!$ 

4%

1 vote

✓ $\frac{4!}{2}$ 

79%

19
votes $\binom{4}{2}$ 

4%

1 vote

Aucune de ces
propositions



13%

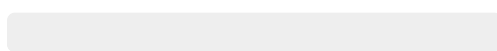
3
votes

?

7

Une pizzeria propose trois tailles de pizza, deux types de pâtes et huit garnitures. Combien y a t-il de pizzas différentes possibles ?

$$13(= 3 + 2 + 8)$$

0%
0 votes

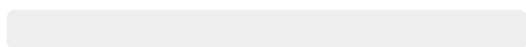
$$\checkmark 48(= 3 \times 2 \times 8)$$

23%
5 votes

$$3!2!8!$$

77%
17 votes

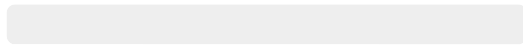
$$\binom{3}{8} + \binom{2}{3}$$

0%
0 votes

8

Dans une classe de 24 élèves,
on veut élire deux délégués.
Combien existe-t-il de paires
différentes possibles ?

$$\frac{24!}{2!}$$



0%

0
votes

$$2^{24}$$



0%

0
votes

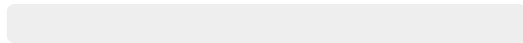
✓ $\binom{24}{2}$



100%

24
votes

Aucune de ces
propositions


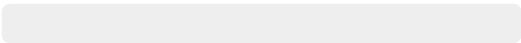
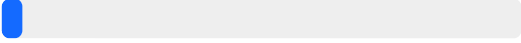
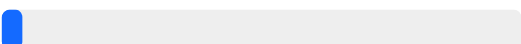


0%

0
votes

9

Dans une classe de 24 élèves
(18 garçons et 6 filles), on
veut élire deux délégués.
Combien existe-t-il de paires
différentes possibles si on
impose d'avoir une fille est un
garçon ?

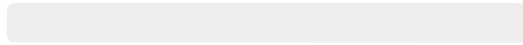
✓ 18×6		92%	23 votes
18^6		0%	0 votes
6^{18}		4%	1 vote
$18 + 6$		4%	1 vote



10

Combien y-a-t-il de façons de
prendre 5 éléments parmi 3
éléments

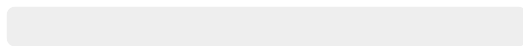
3×5



0%

0
votes

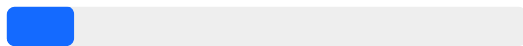
5^3



0%

0
votes

 $\binom{3}{5}$



13%

3
votes

 0



96%

23
votes

