

N°4

La Gazette
du Rallye mathématique
de l'IREM Paris-Nord

27 mars2023

LES SOLUTIONS AUX ÉPREUVES

Nous espérons que vous avez pris plaisir à participer au rallye cette année!

Voici des solutions pour chaque épreuve. Ce ne sont pas toujours les seules. Des commentaires seront donnés dans la gazette n° 5 qui paraîtra dans le courant du mois de mai avec le palmarès du rallye.

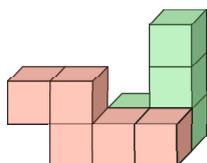
Épreuve 1 : Assemblages



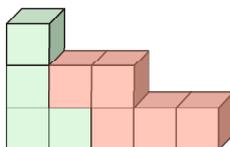
Le solide qui n'est pas une des pièces A, B, C, D est le numéro :



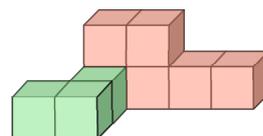
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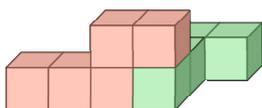
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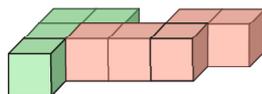
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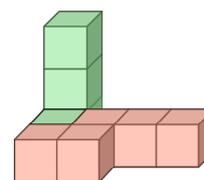
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⑤

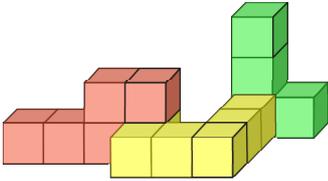


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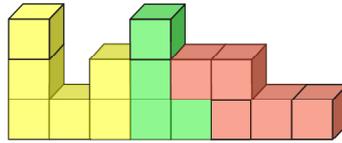




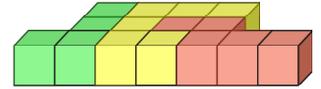
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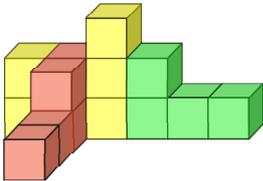
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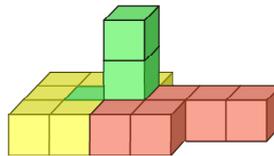
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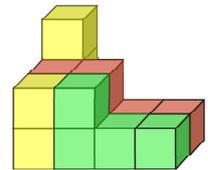
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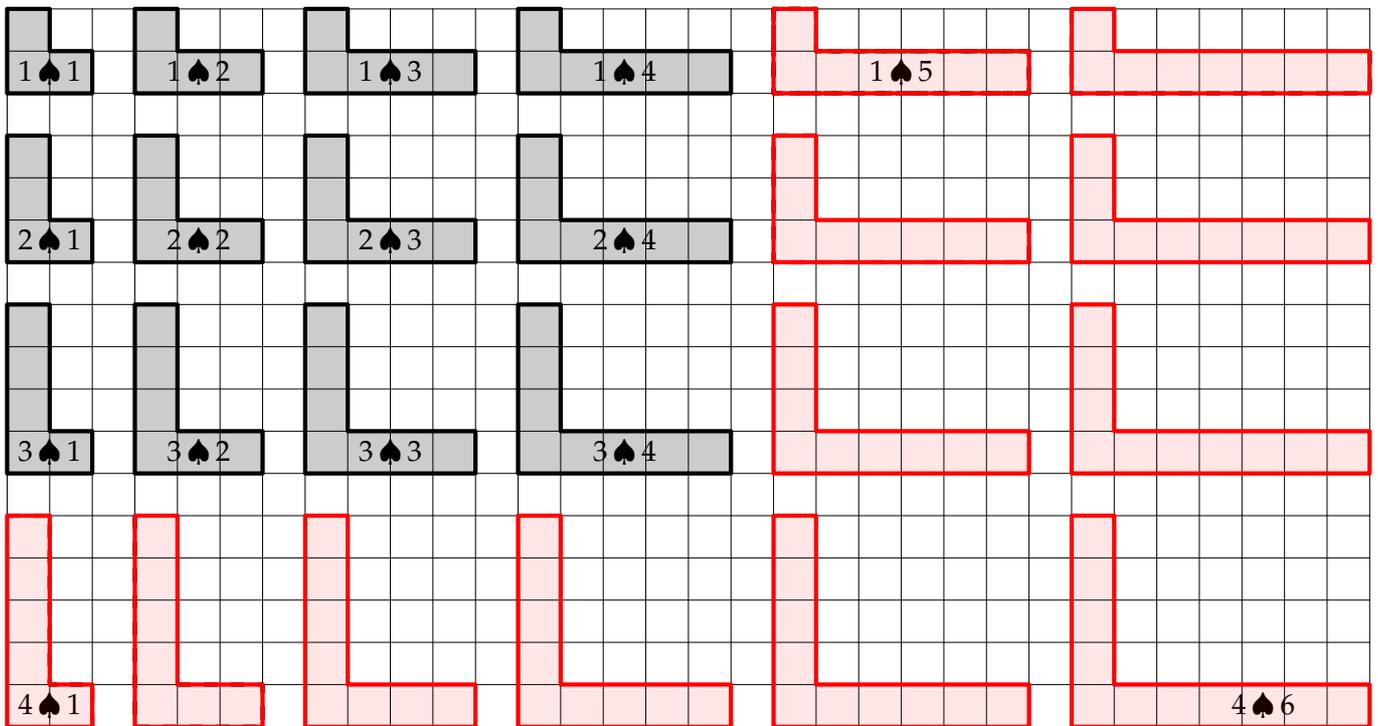
⑤



⑥



Épreuve 2 : En deux dimensions



L'aire de la figure 4♠6 mesure 11 carreaux.



L'aire de la figure 5♦7 mesure 20 carreaux.

L'aire de la figure 13♣17 mesure 251 carreaux.

Épreuve 3 : Dans le mille



Le nombre secret d'Abdelkrim est : Le nombre secret de Binta est : Le nombre secret de Cecilia est :

147,6

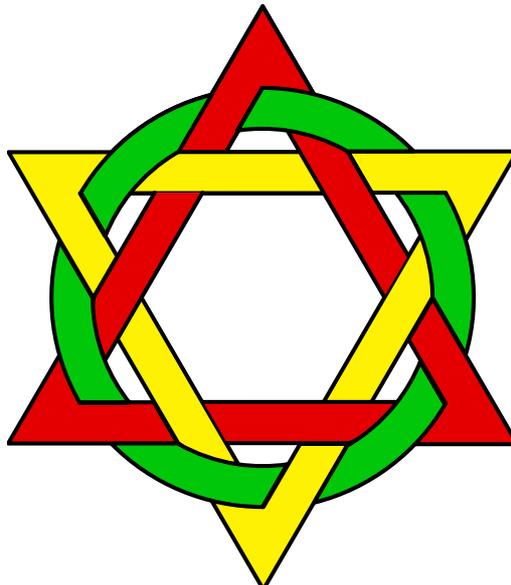
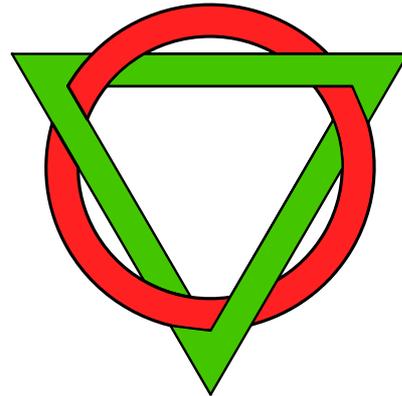
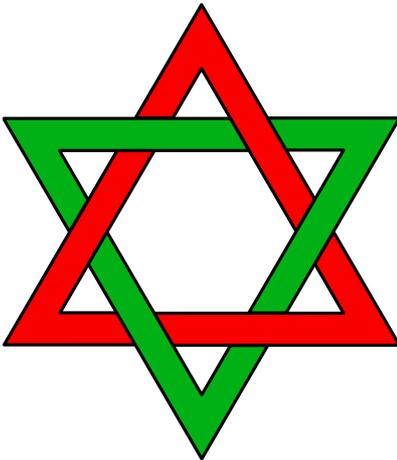
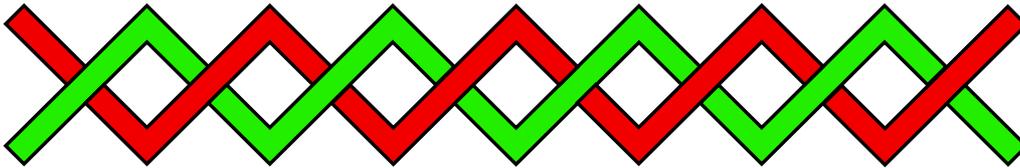
23,4

1,64

Épreuve 4 : Entrelacs

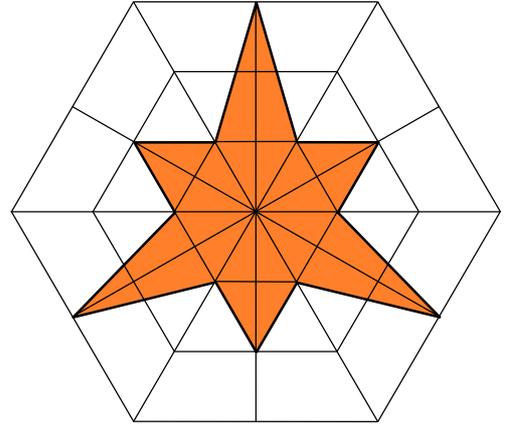
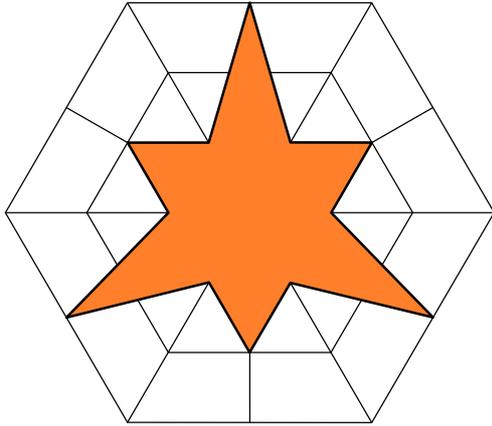


le ruban passe au-dessus... ... puis en dessous

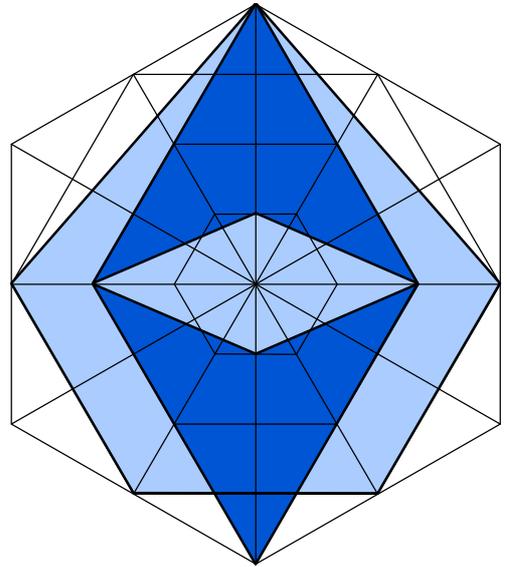
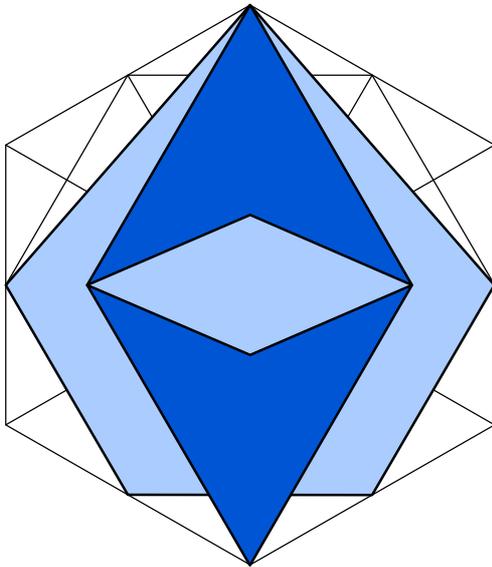


Épreuve 5 : Repérage

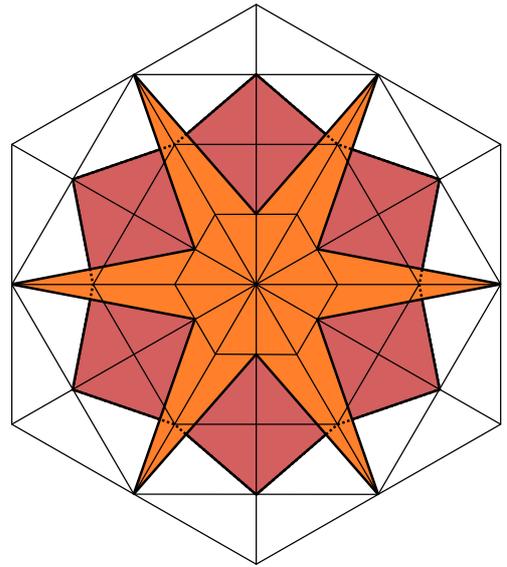
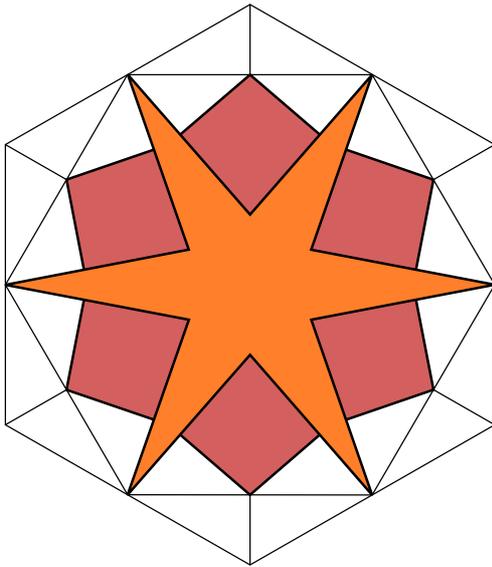
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Épreuve 6 : Piles d'assiettes

★
La pile contient

13

assiettes 

★★
La pile contient

25

assiettes 

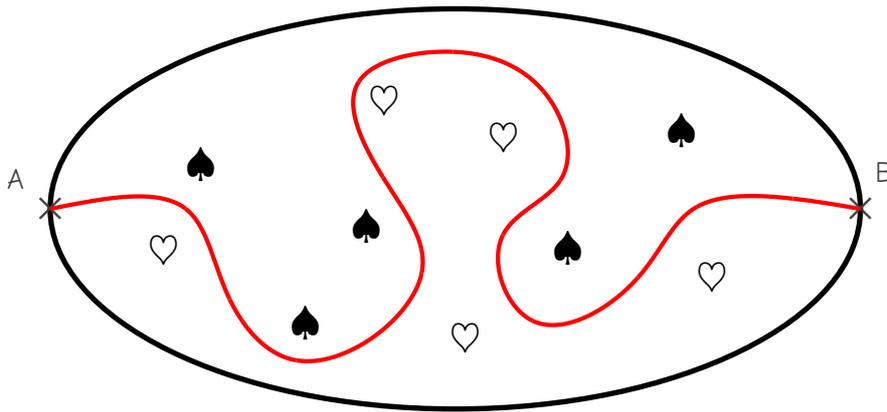
★★★
La pile contient

20

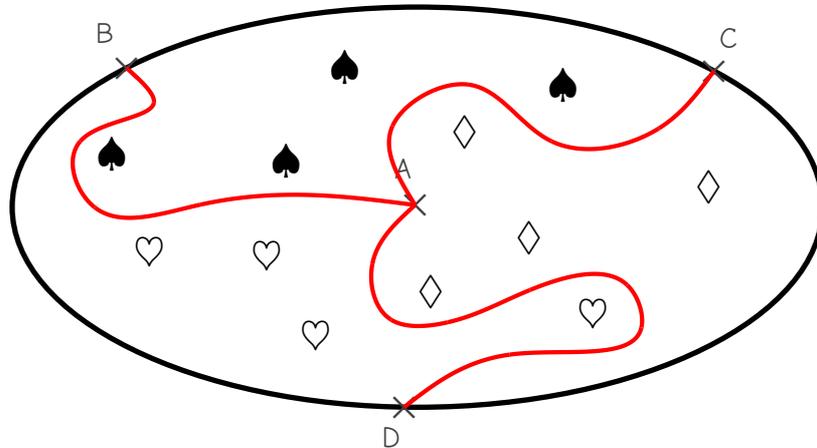
assiettes 

Épreuve 7 : À main levée

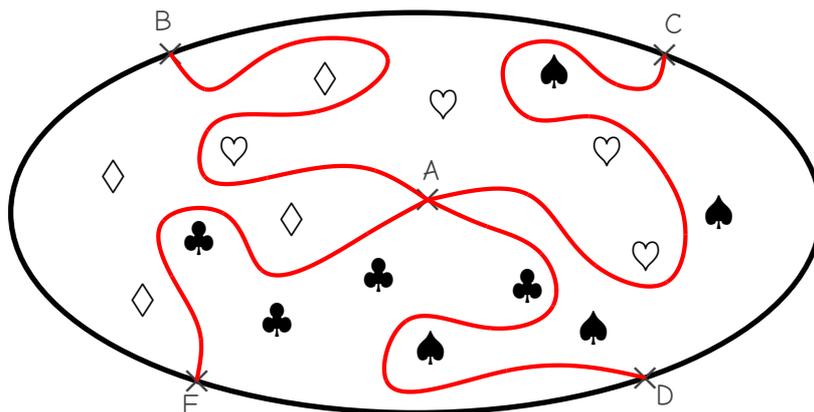
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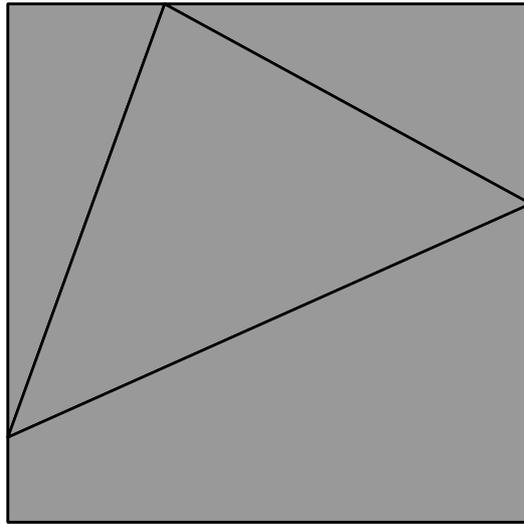


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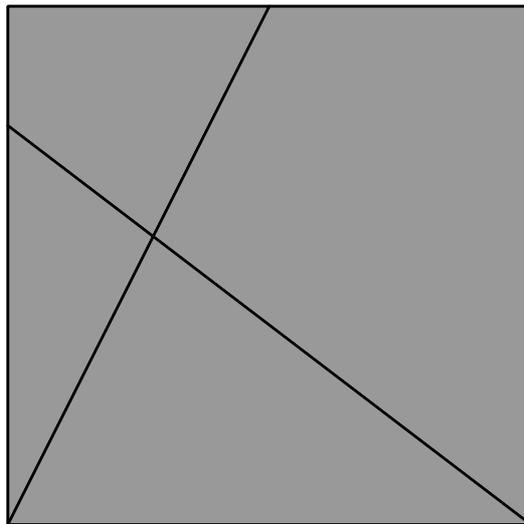


Épreuve 8 : Puzzle

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