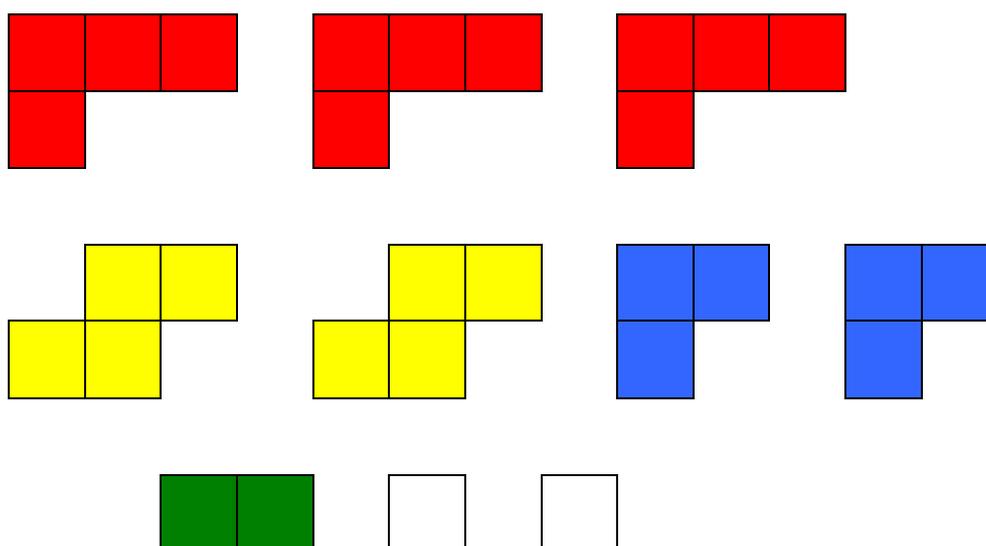
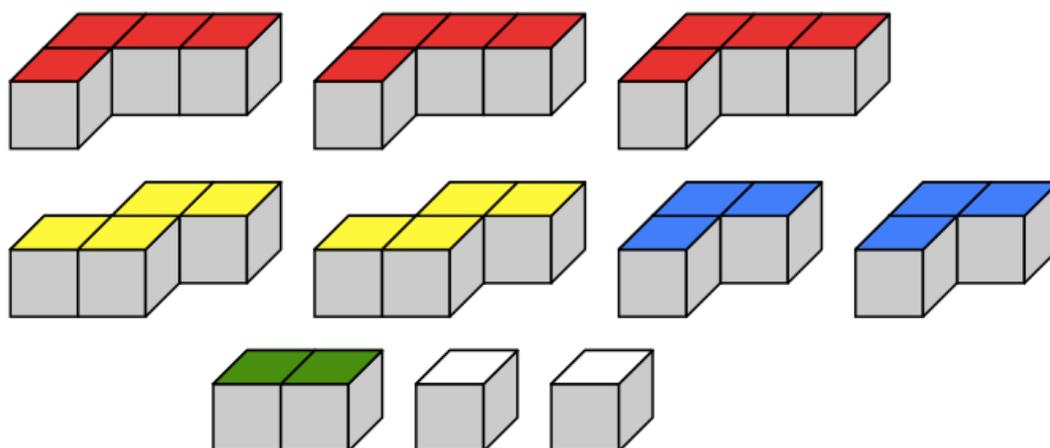


Utilisations des pièces du « puzzle aztèque » en CP-CE1

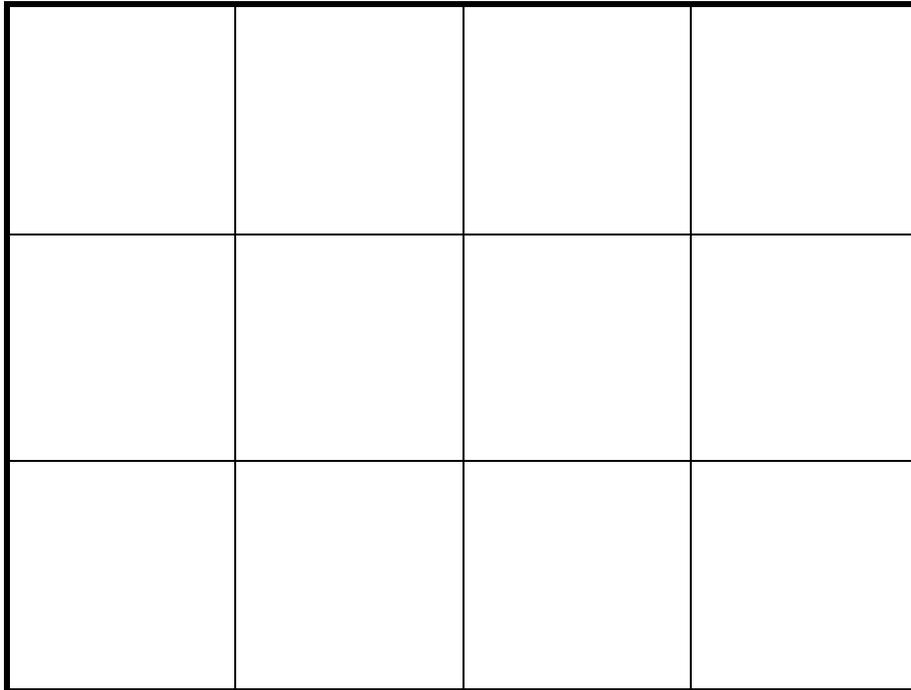


École de Sampigny
30 mai 2022

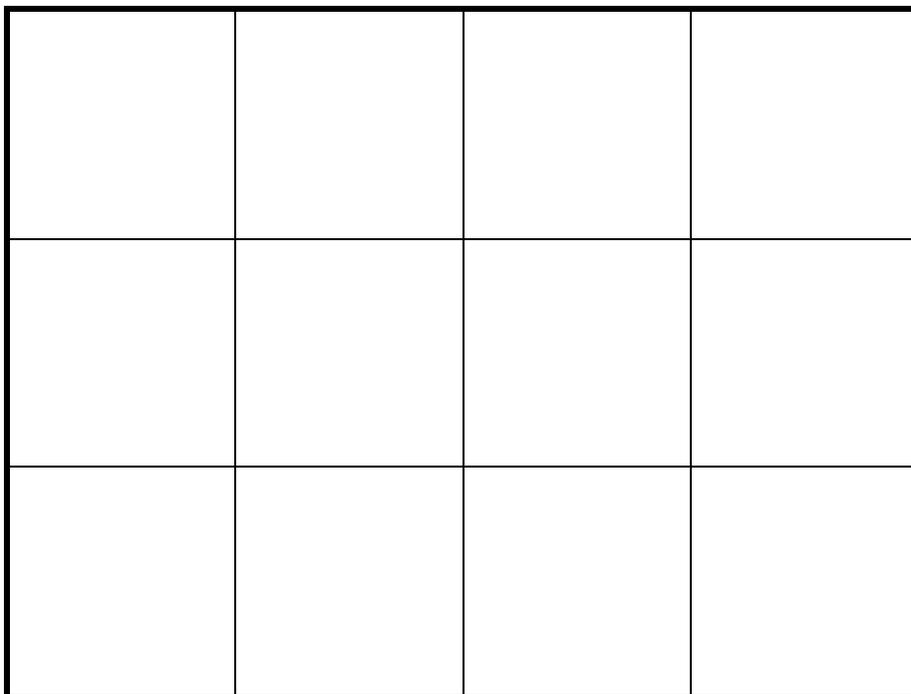
Les carrés des pièces unitaires utilisées ont 3 cm de côté

Des rectangles formés de 12 carreaux

Le rectangle à recouvrir

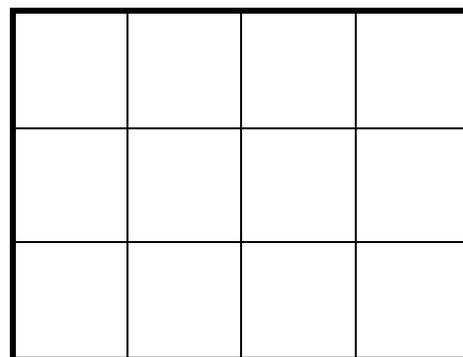
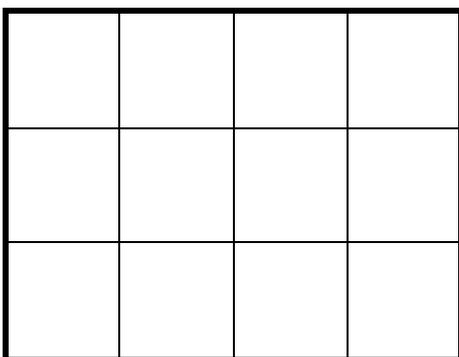
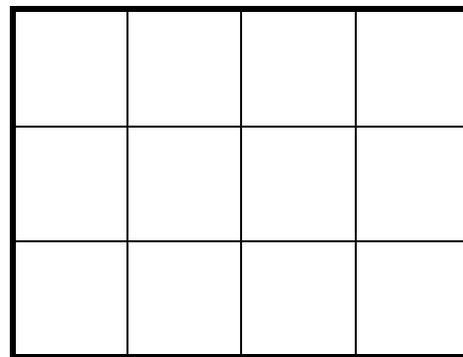
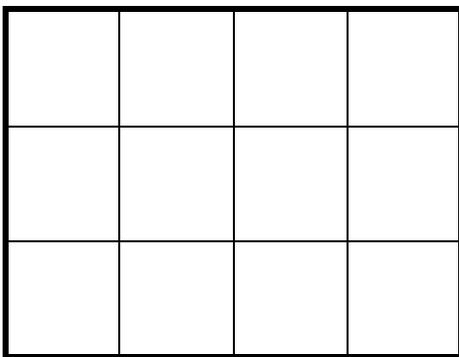
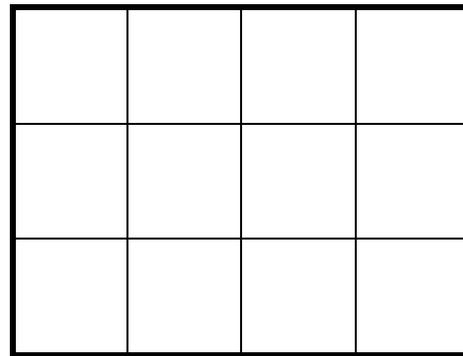
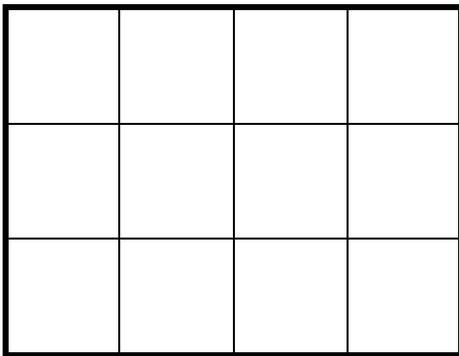
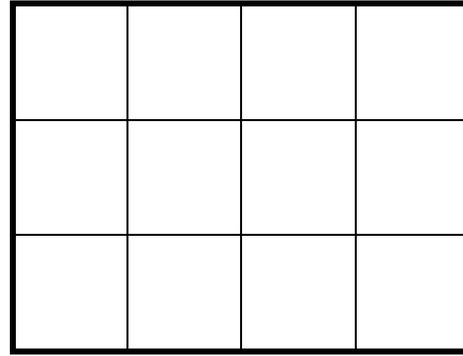
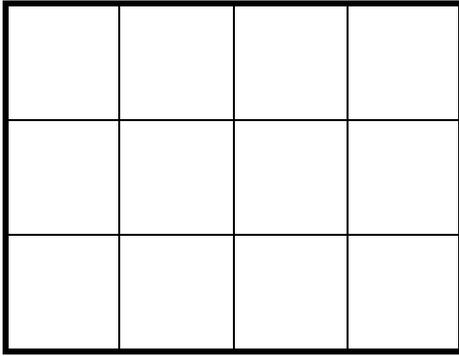


Le rectangle à recouvrir



Document pour deux élèves

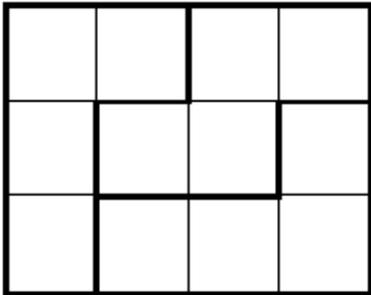
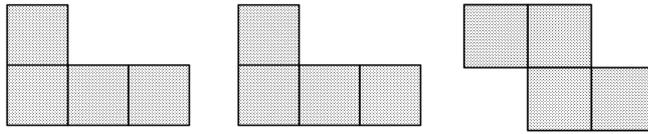
Pour les rectangles trouvés



Des rectangles (1)

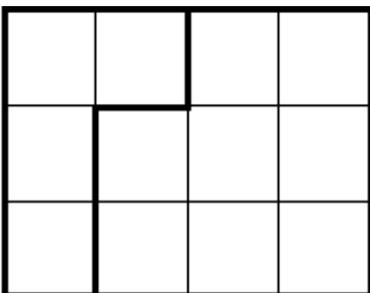
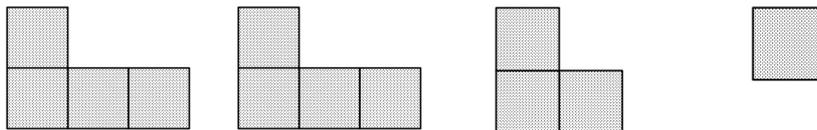
Un premier rectangle

Les pièces



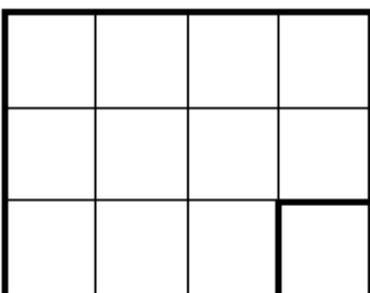
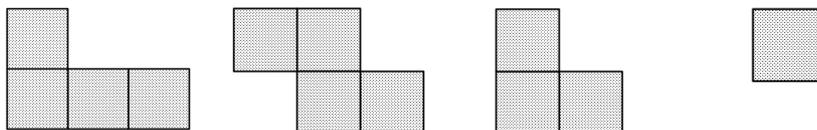
Un deuxième rectangle

Les pièces



Un troisième rectangle

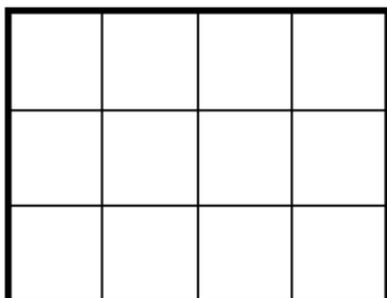
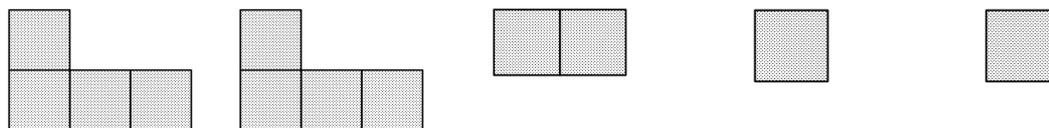
Les pièces



Des rectangles (2)

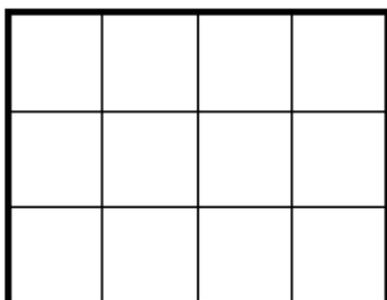
Un quatrième rectangle

Les pièces



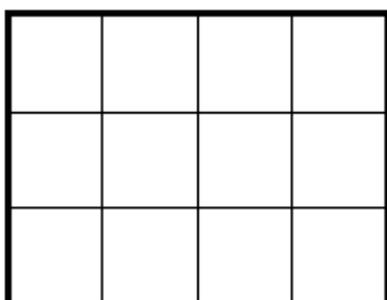
Un cinquième rectangle

Les pièces



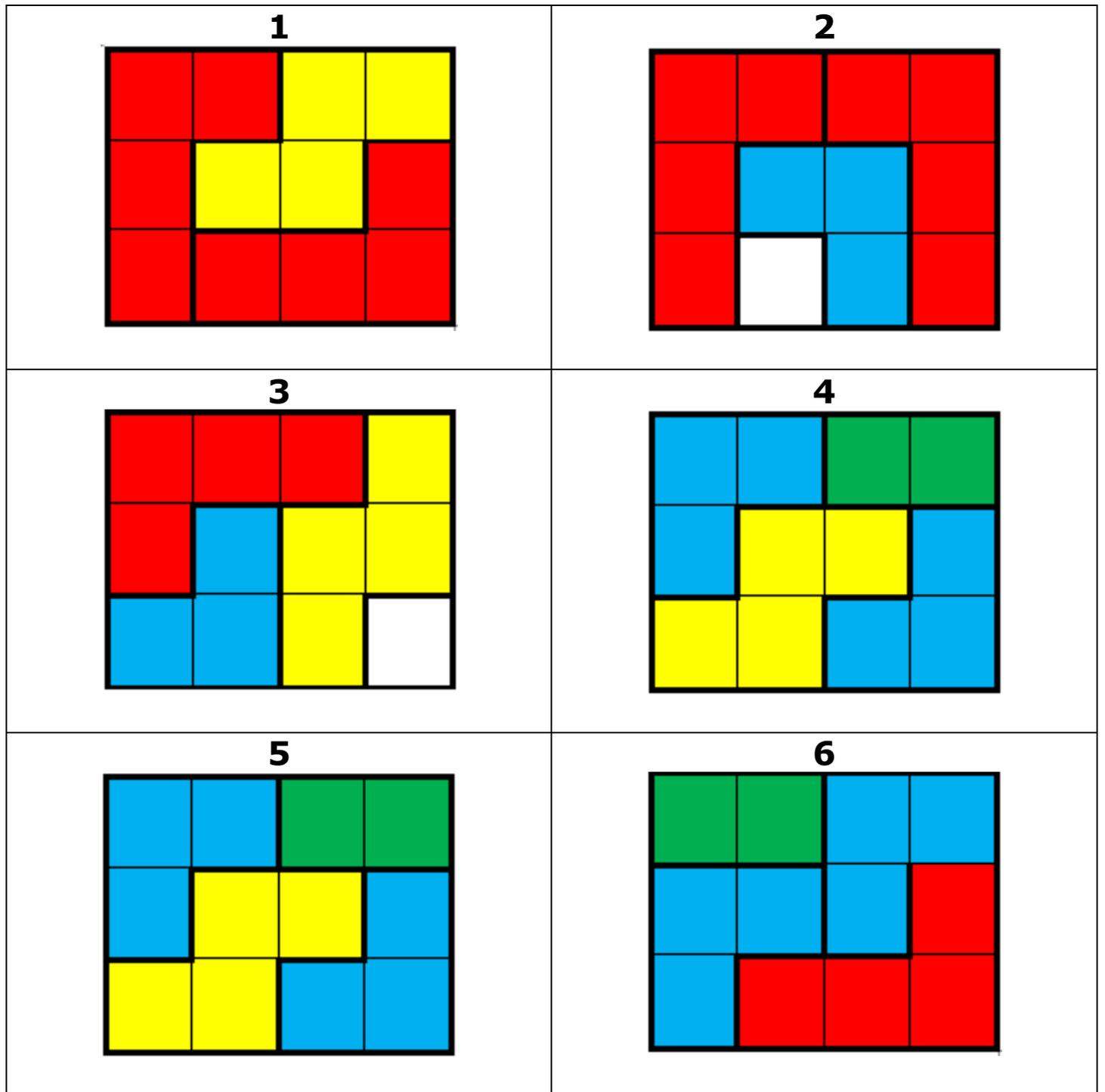
Un sixième rectangle

Les pièces



Des rectangles (3)

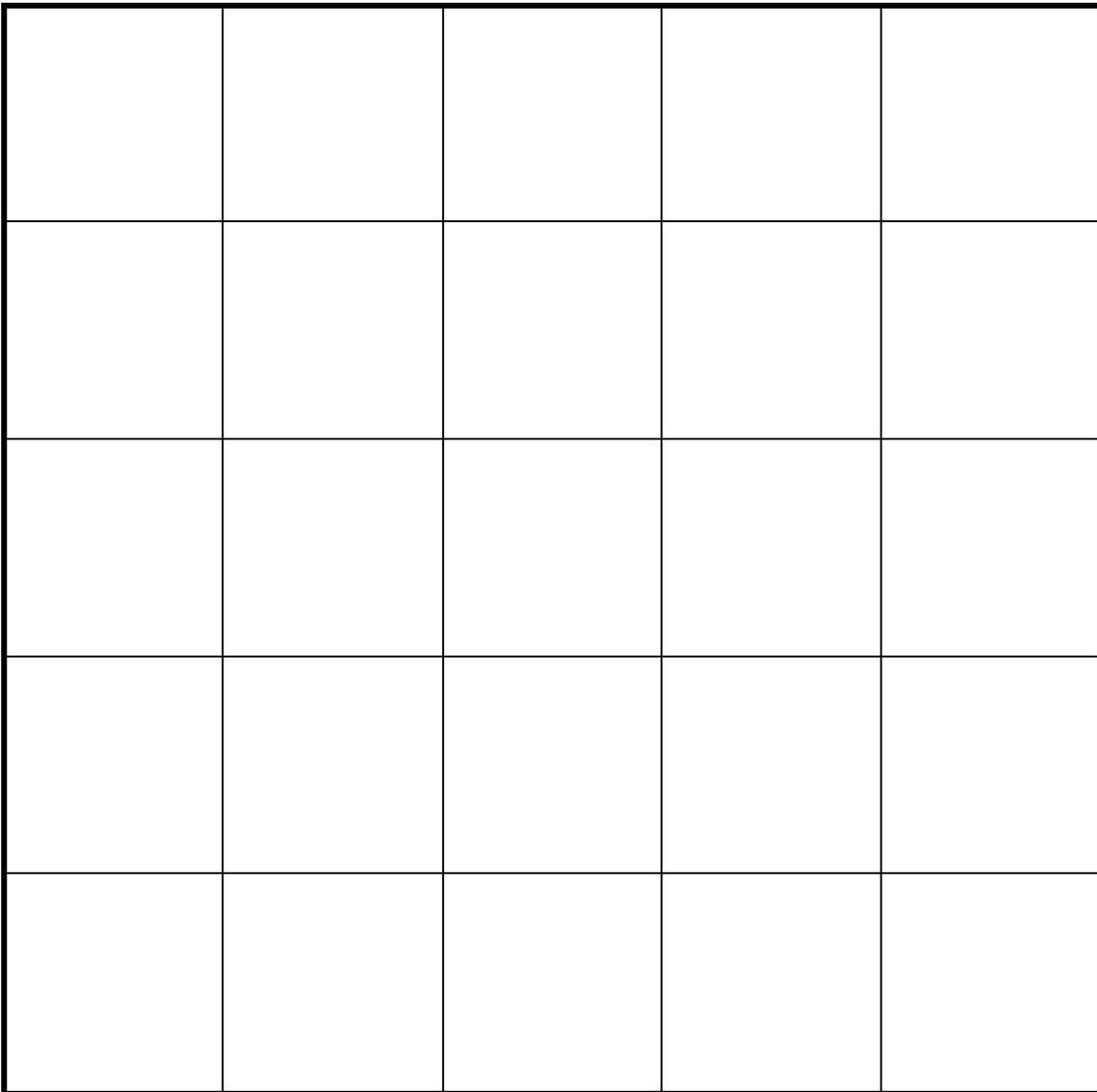
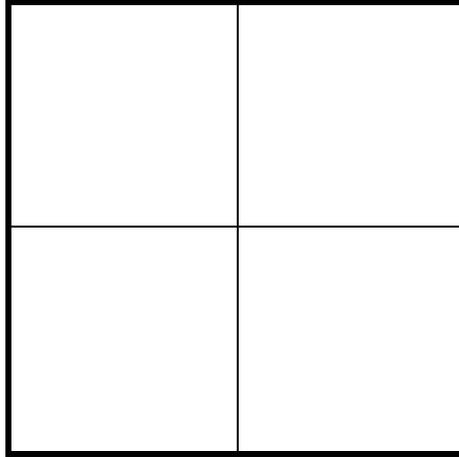
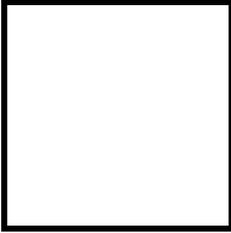
Des solutions



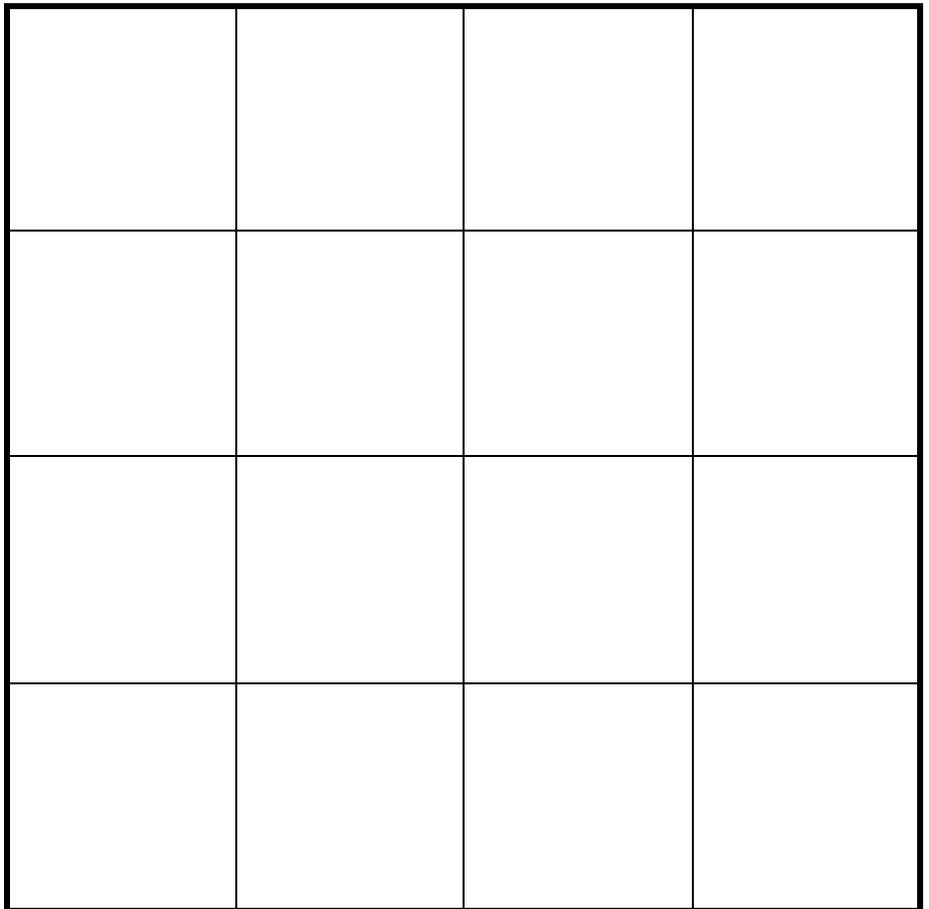
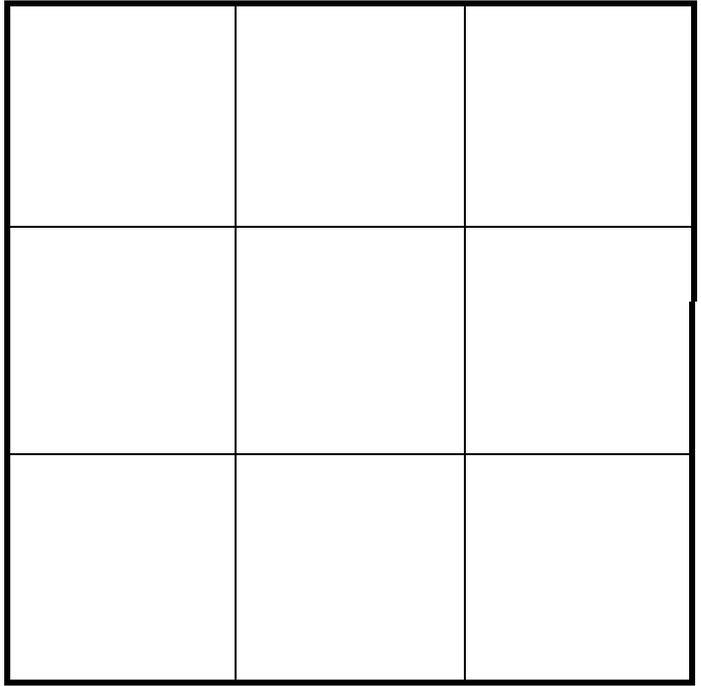
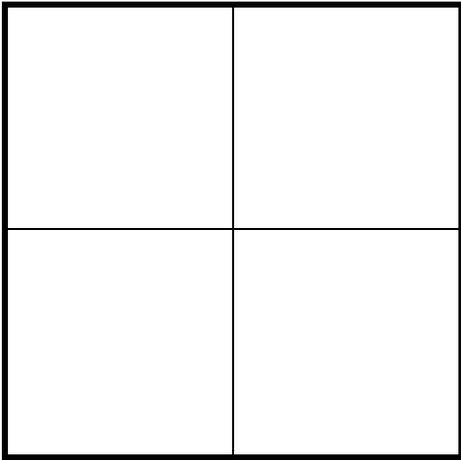
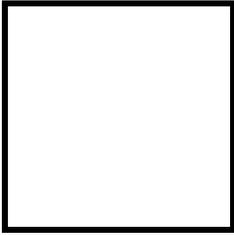
D'autres solutions existent.

Document pouvant être projeté

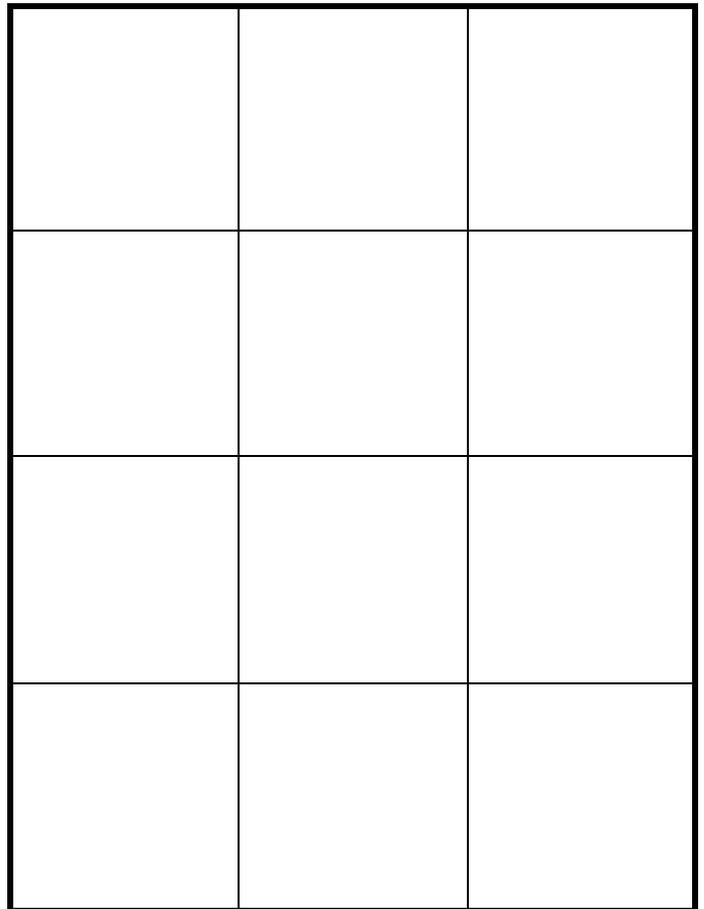
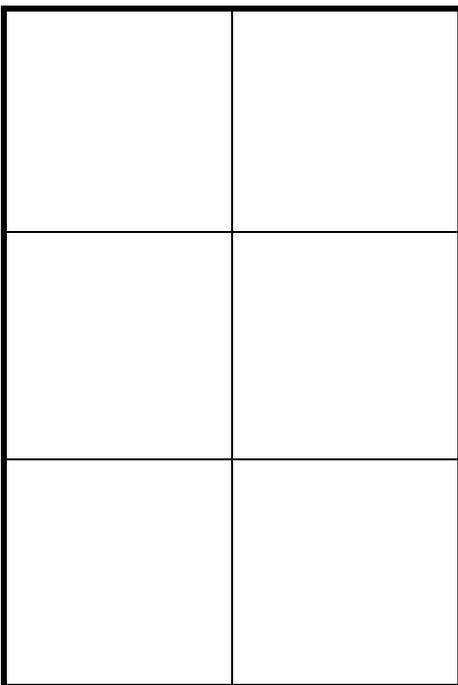
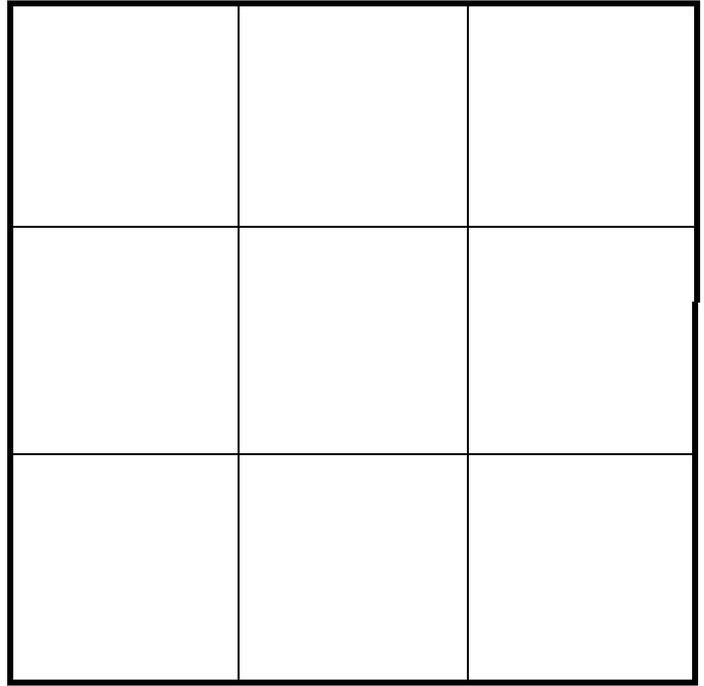
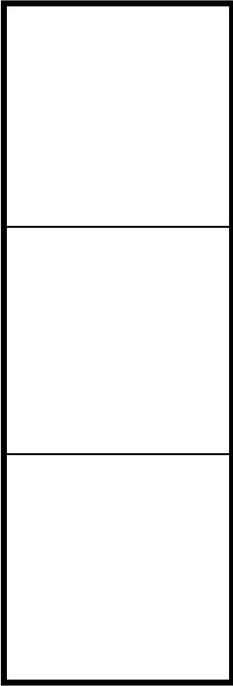
Trois carrés à recouvrir



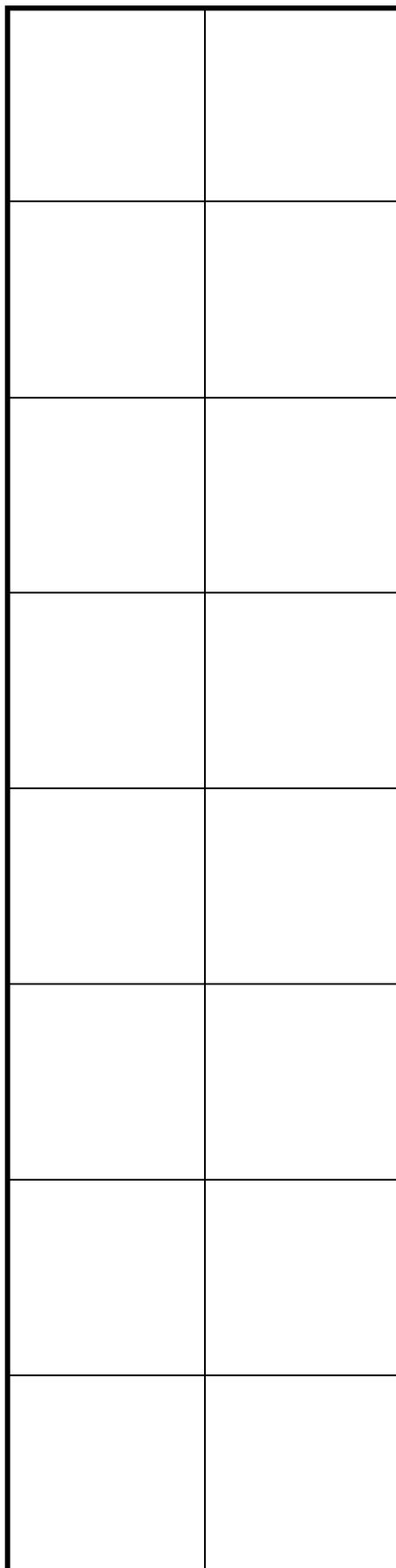
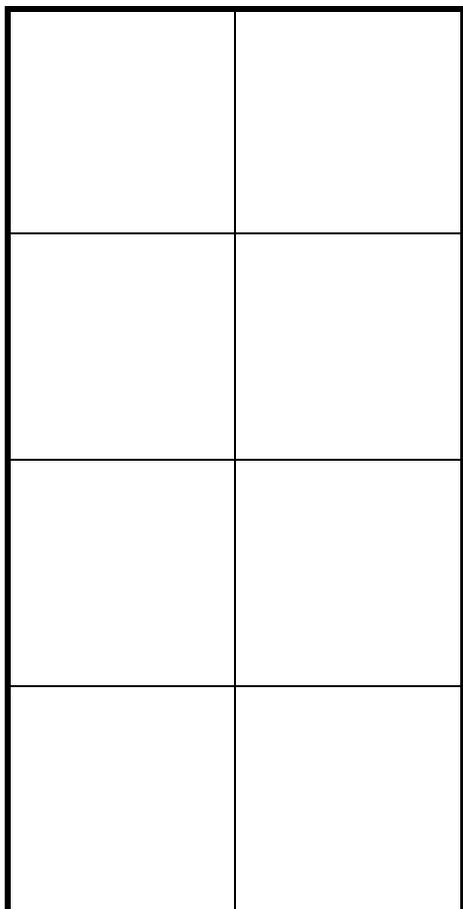
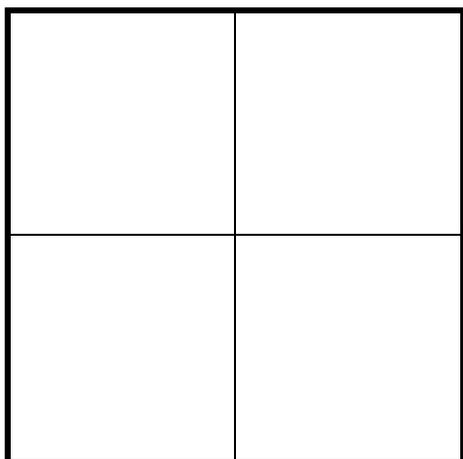
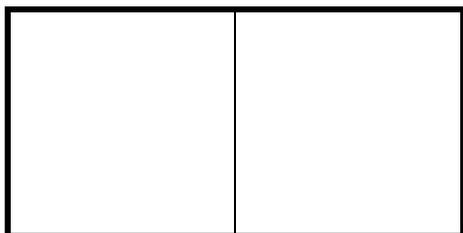
Quatre carrés à recouvrir



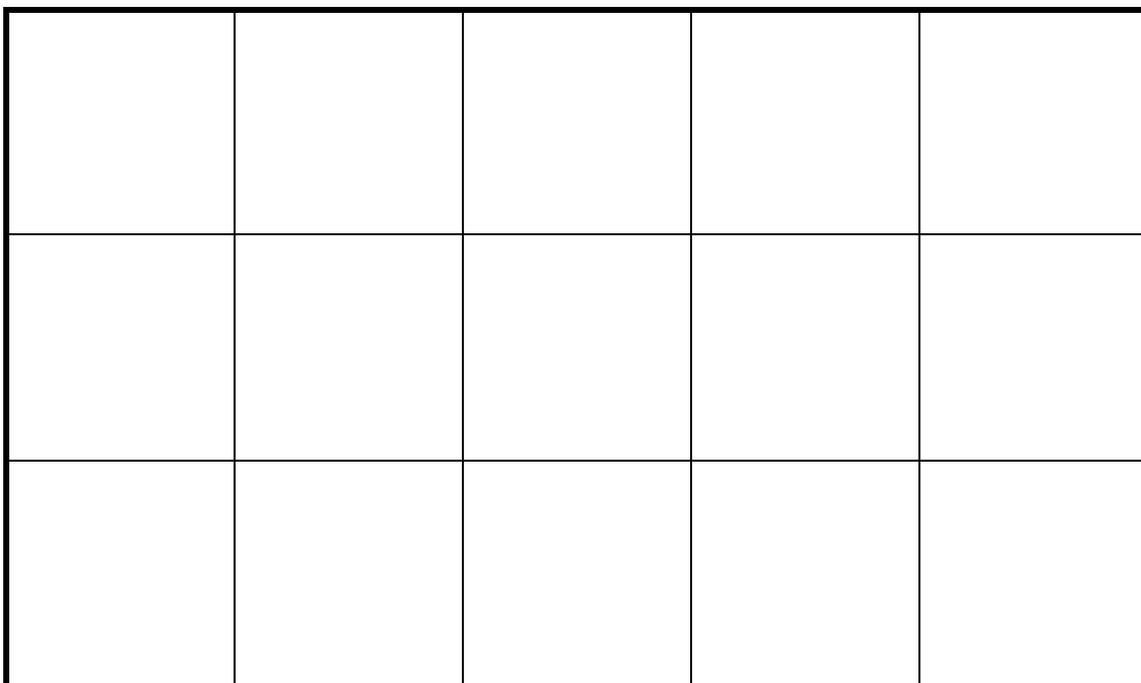
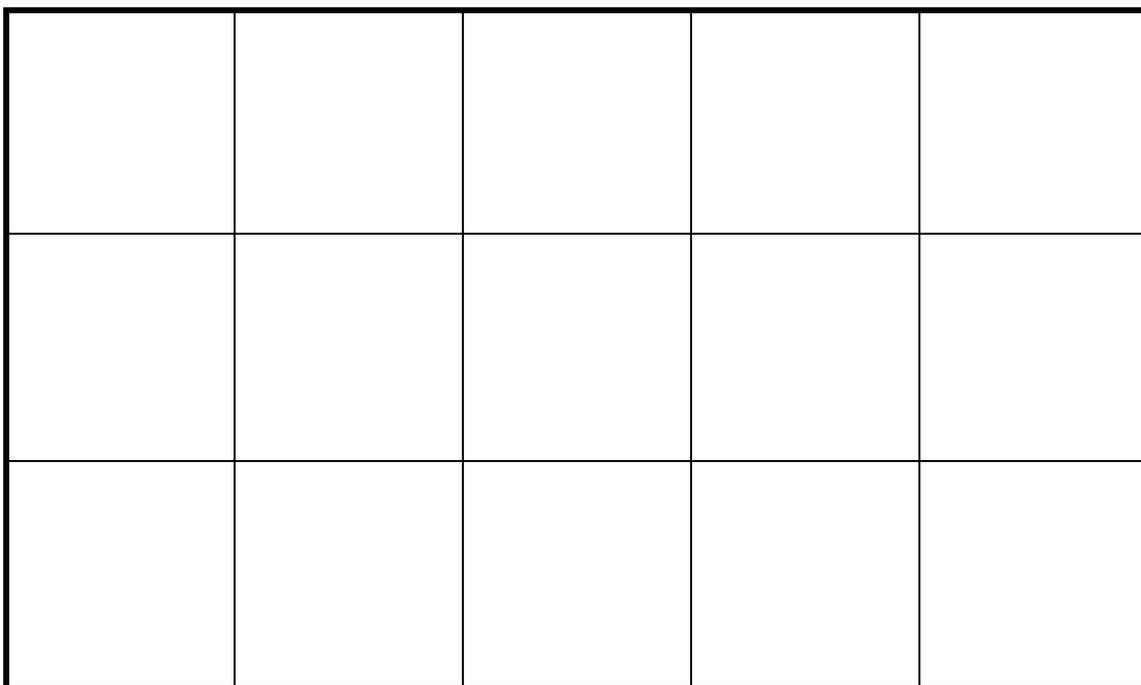
Un carré et trois rectangles à recouvrir (1)



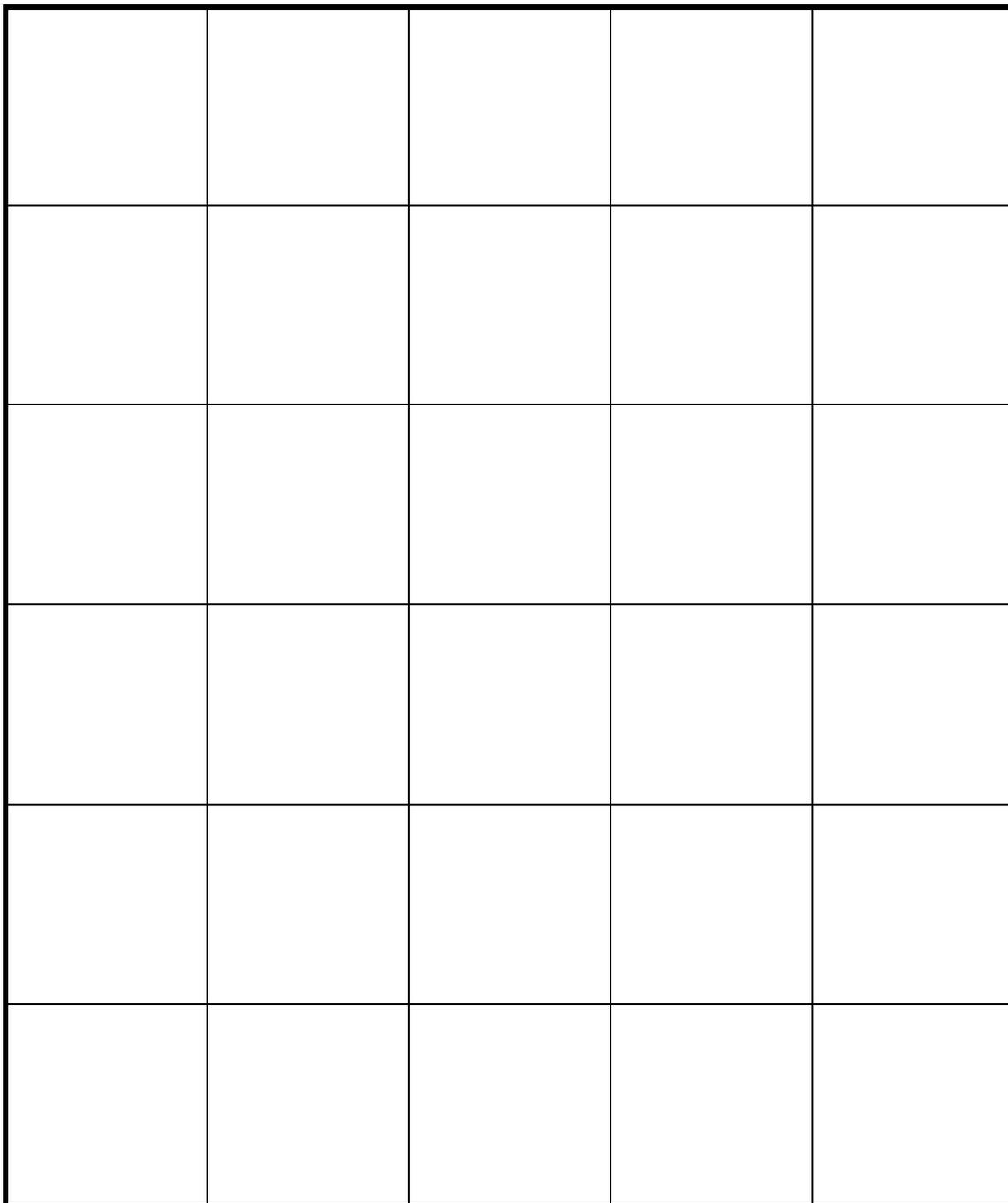
Un carré et trois rectangles à recouvrir (2)



Deux rectangles à recouvrir

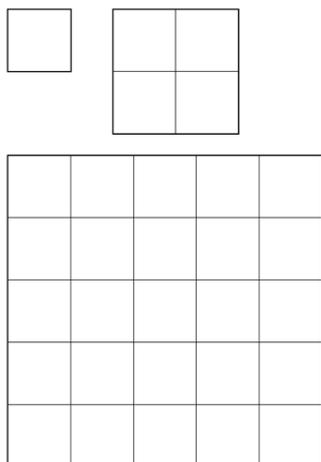


Un rectangle à recouvrir

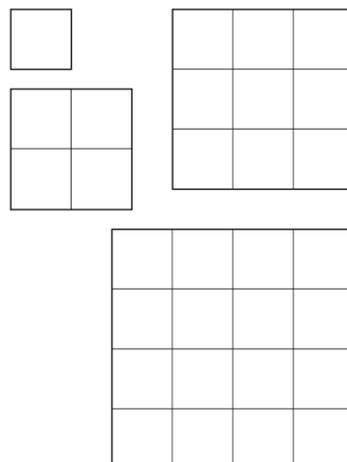


Des carrés et des rectangles

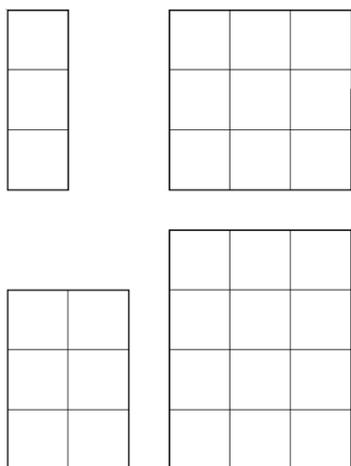
3 carrés



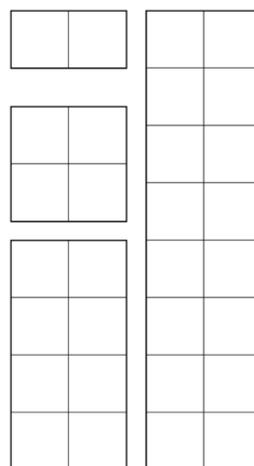
4 carrés



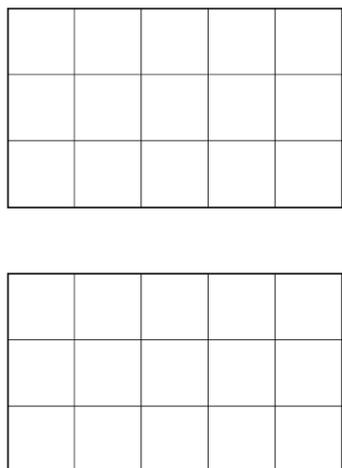
1 carré et 3 rectangles (1)



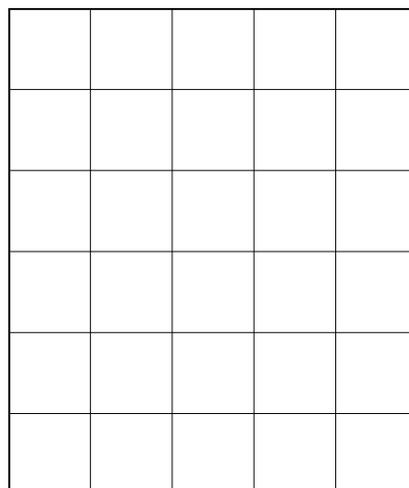
1 carré et 3 rectangles (2)



2 rectangles



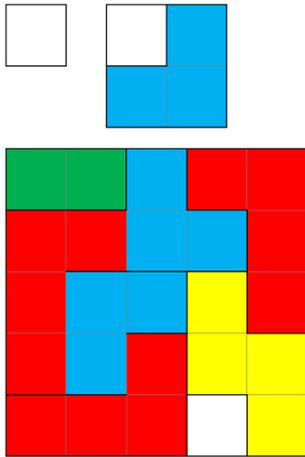
1 rectangle



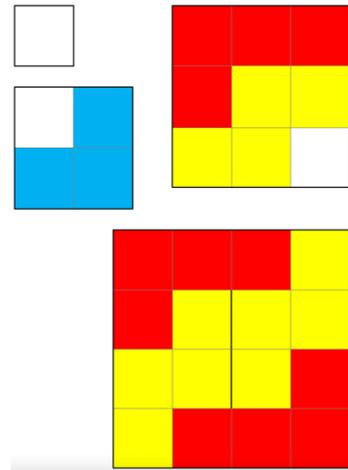
Pour recueillir ce que les élèves ont trouvé

Des carrés et des rectangles (des solutions)

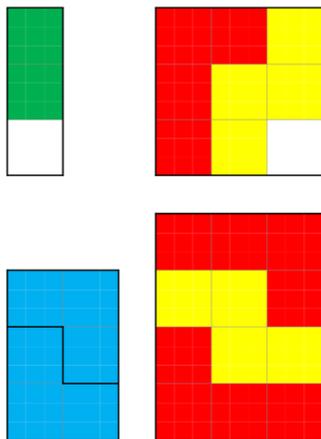
3 carrés



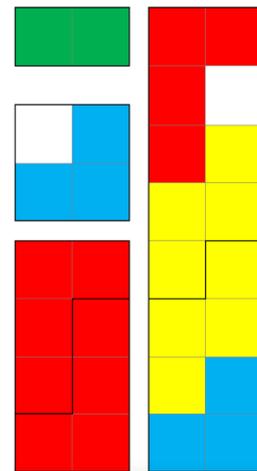
4 carrés



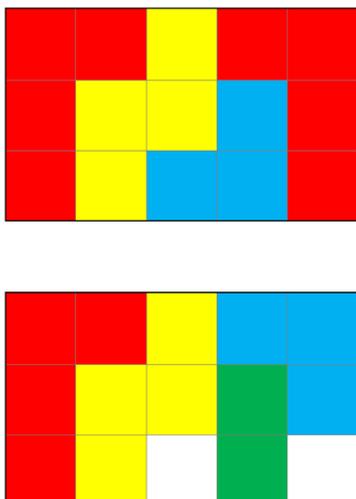
1 carré et 3 rectangles (1)



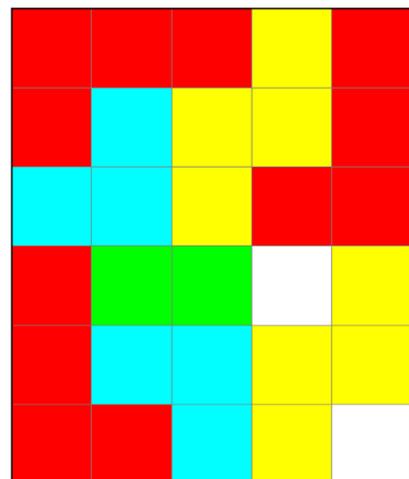
1 carré et 3 rectangles (2)



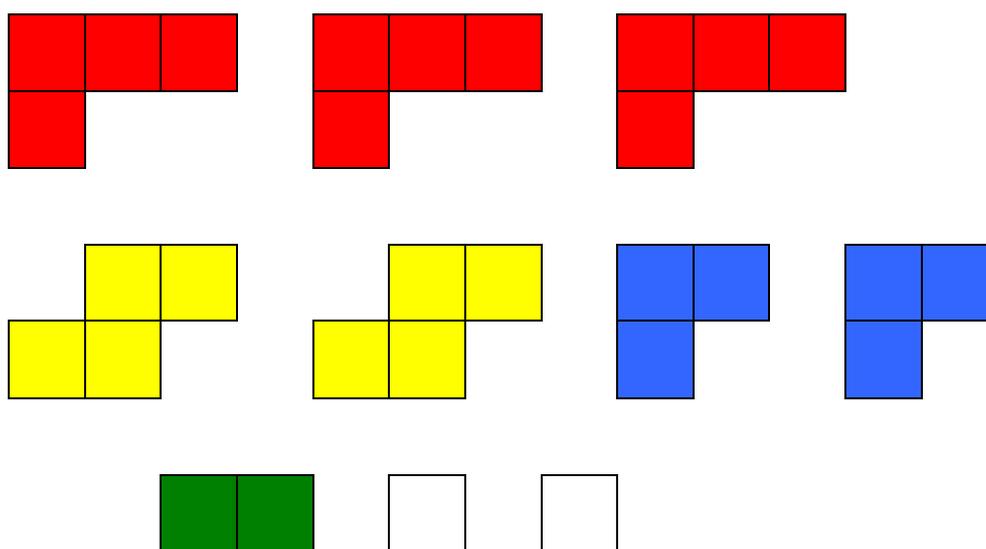
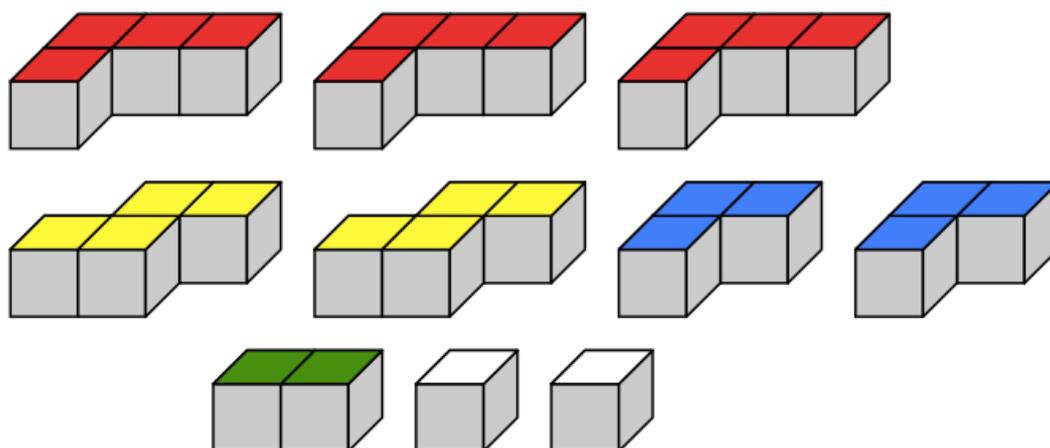
2 rectangles



1 rectangle



Utilisations des pièces du « puzzle aztèque » en CE2

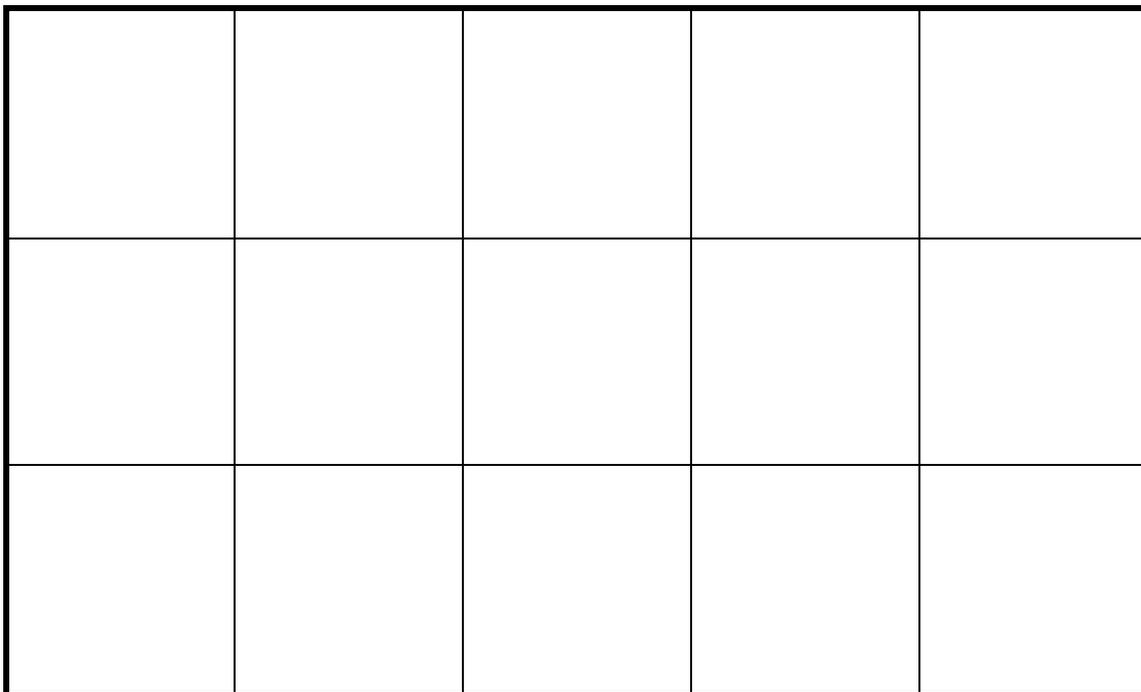


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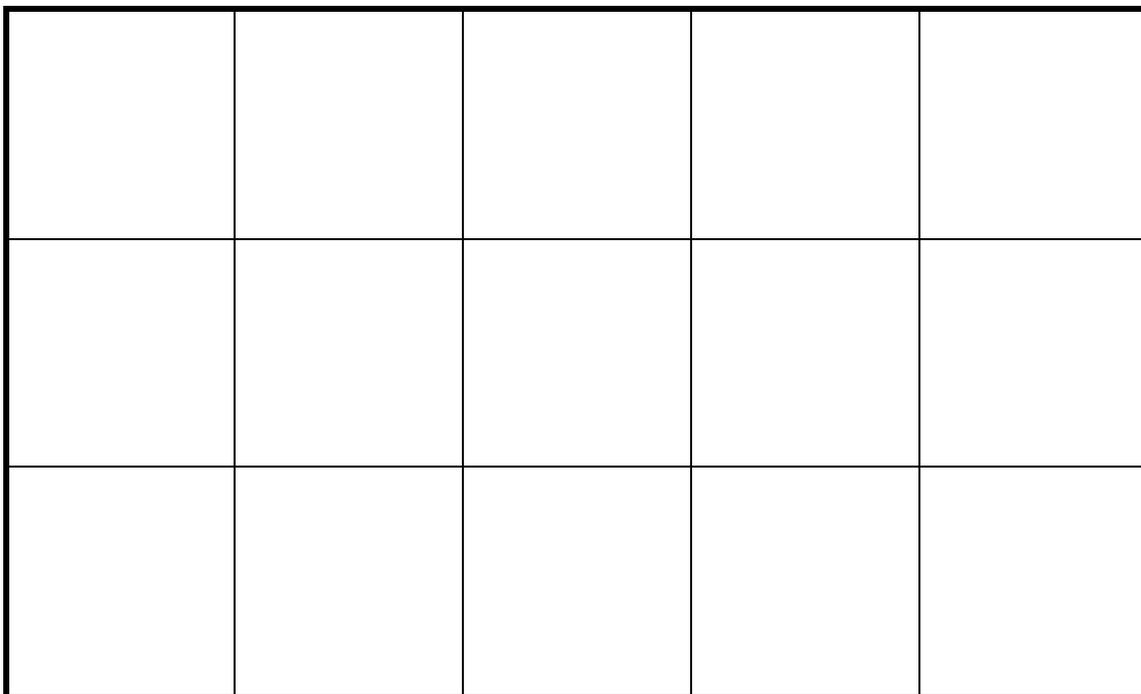
Les carrés des pièces unitaires utilisées ont 3 cm de côté

Des rectangles formés de 15 carreaux

Le rectangle à recouvrir

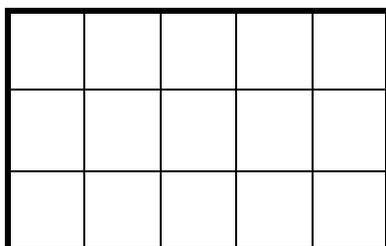
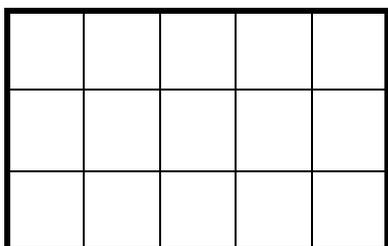
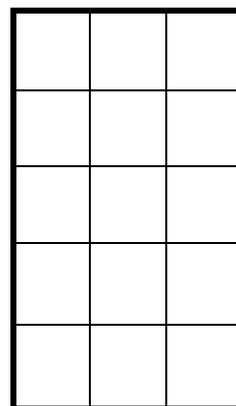
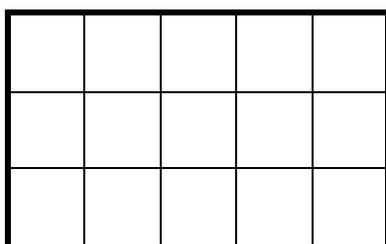
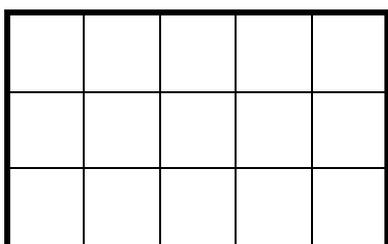
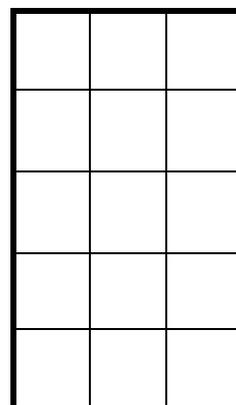
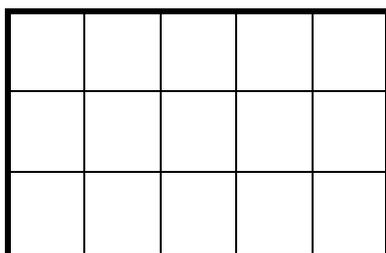
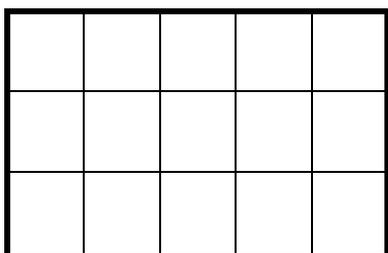
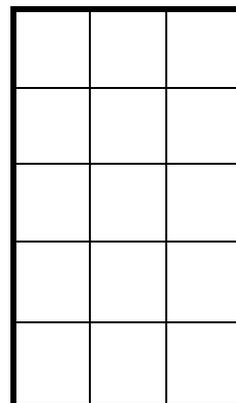
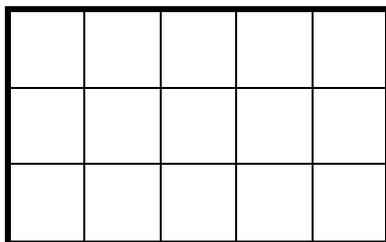
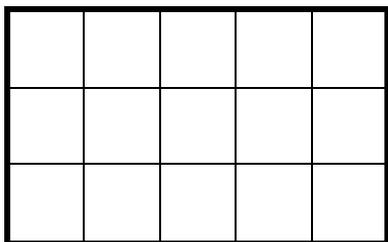


Le rectangle à recouvrir



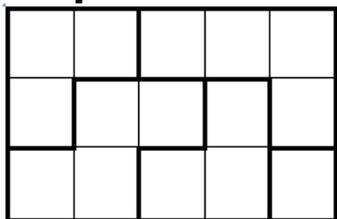
Document pour deux élèves

Pour les rectangles trouvés



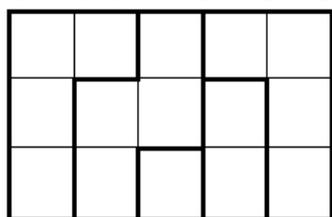
Trois rectangles

Un premier rectangle



Nombre de pièces utilisées	1	1	2	0	1

Un deuxième rectangle



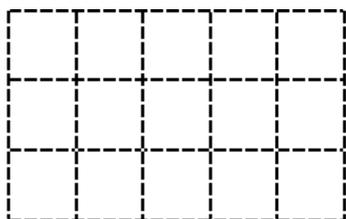
Complète le tableau.

Nombre de pièces utilisées					

Un troisième rectangle

Retrouve le recouvrement du rectangle.

Nombre de pièces utilisées	2	1	1	0	0



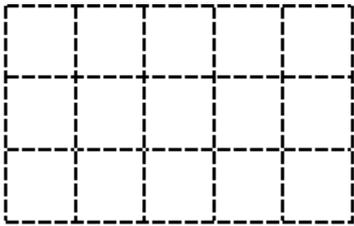
Document à projeter et document élève

D'autres rectangles

Colorie les recouvrements et complète les tableaux.

Un quatrième rectangle

Nombre de pièces utilisées	2	0	1	1	2



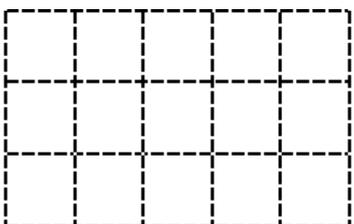
Un cinquième rectangle

Nombre de pièces utilisées	2	0	2	0	1



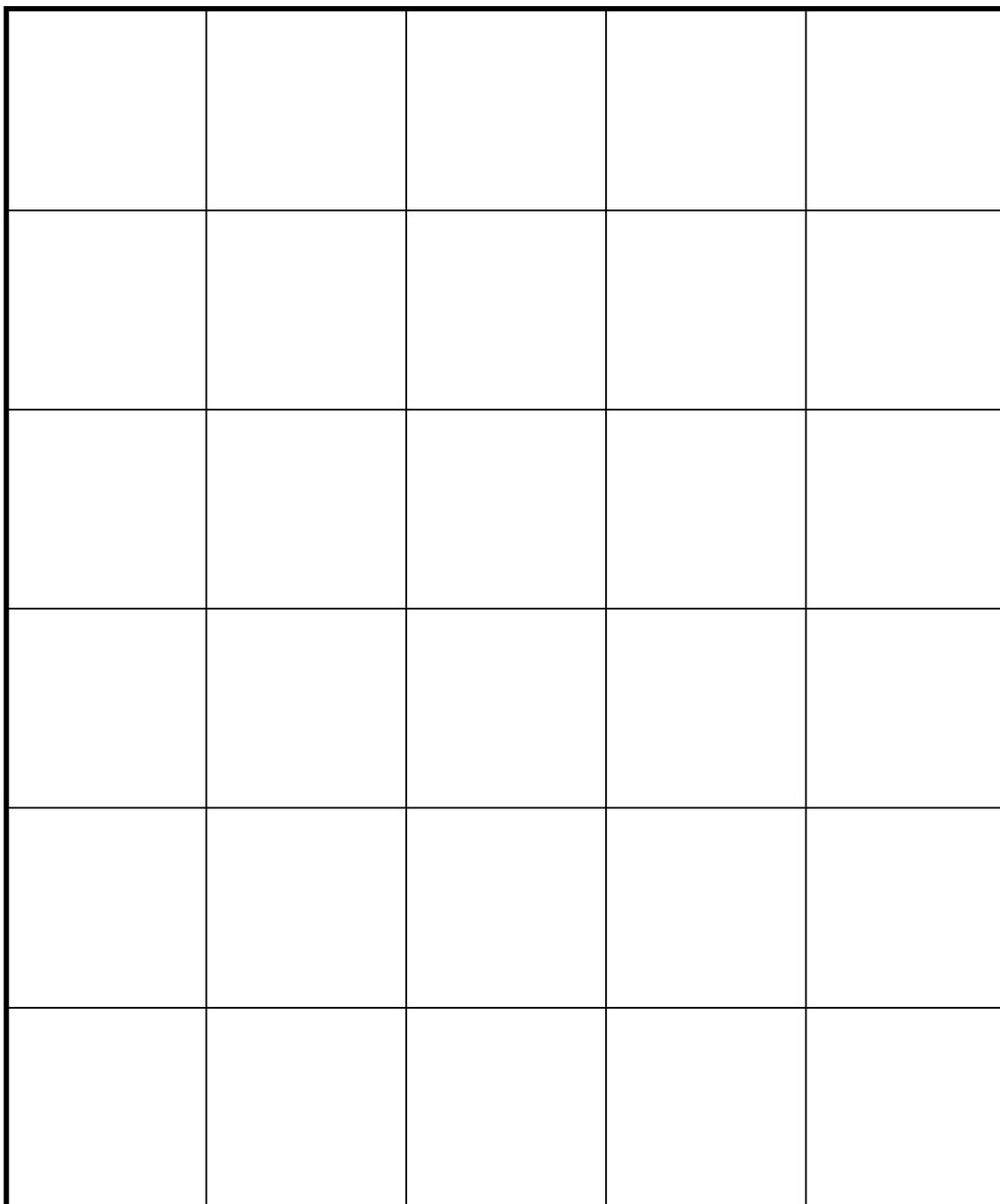
Un sixième rectangle

Nombre de pièces utilisées	1	1	2	0	1



Des rectangles formés de 15 carreaux

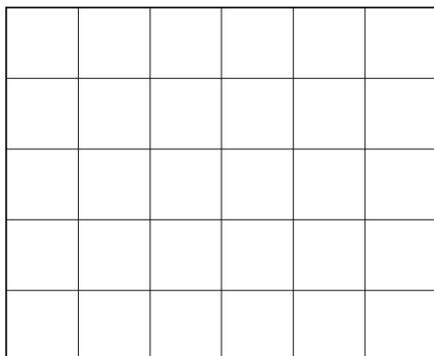
Le rectangle à recouvrir



Des rectangles formés de 15 carreaux (Trois défis)

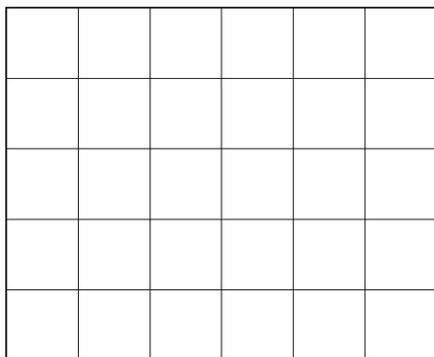
Premier défi

Recouvre le rectangle avec les 10 pièces du jeu.



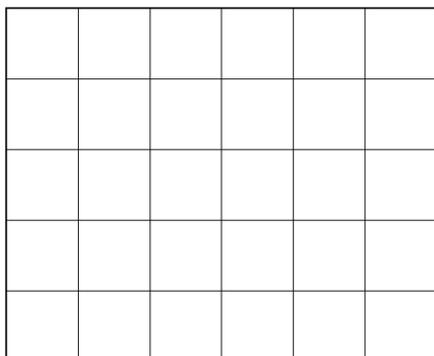
Deuxième défi

Recouvre le rectangle avec les 10 pièces de telle sorte que deux pièces d'une même couleur ne se touchent éventuellement que par des sommets.

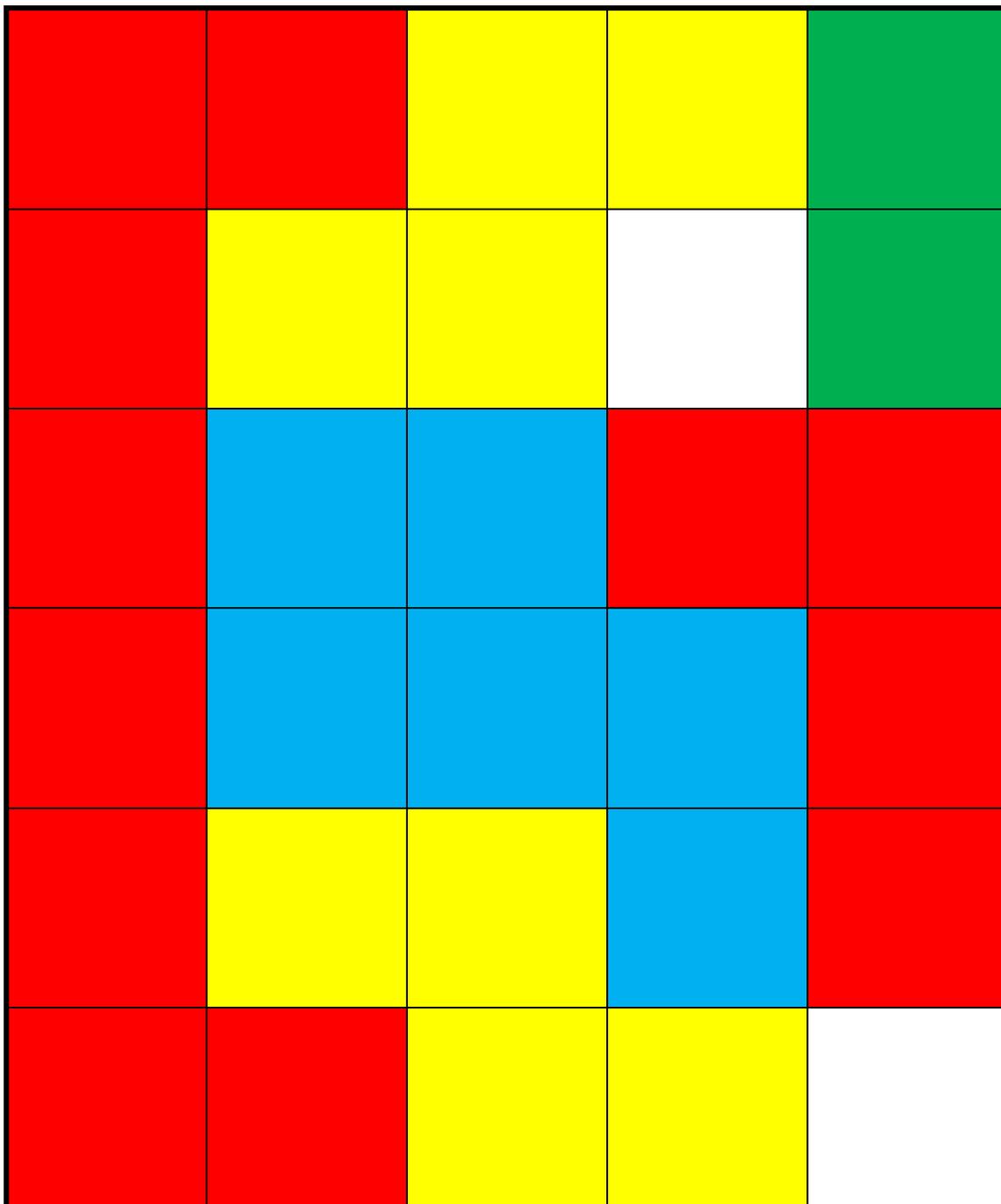


Troisième défi

Recouvre le rectangle avec les 10 pièces de telle sorte que deux pièces d'une même couleur ne se touchent jamais.

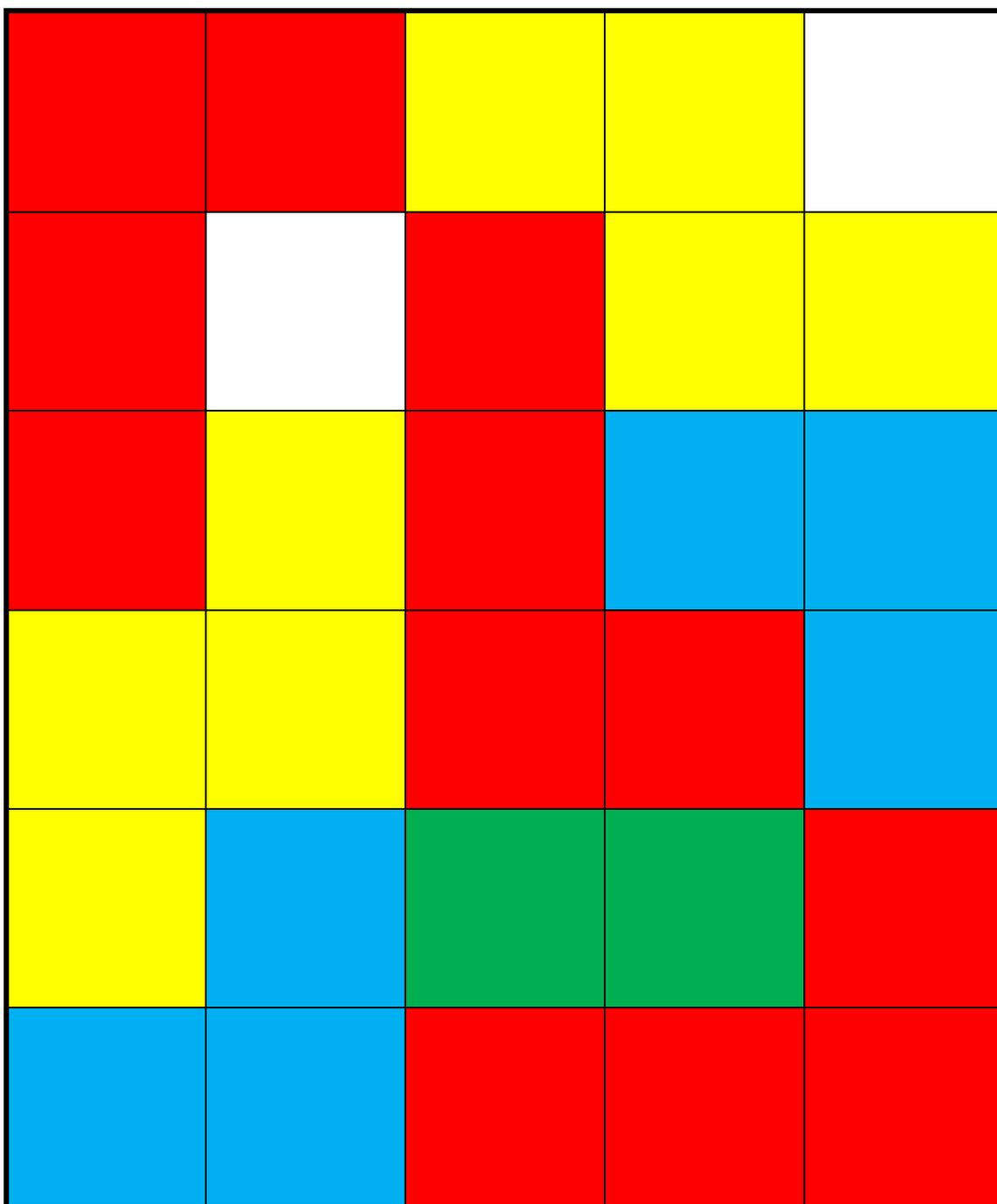


Une solution au défi 1



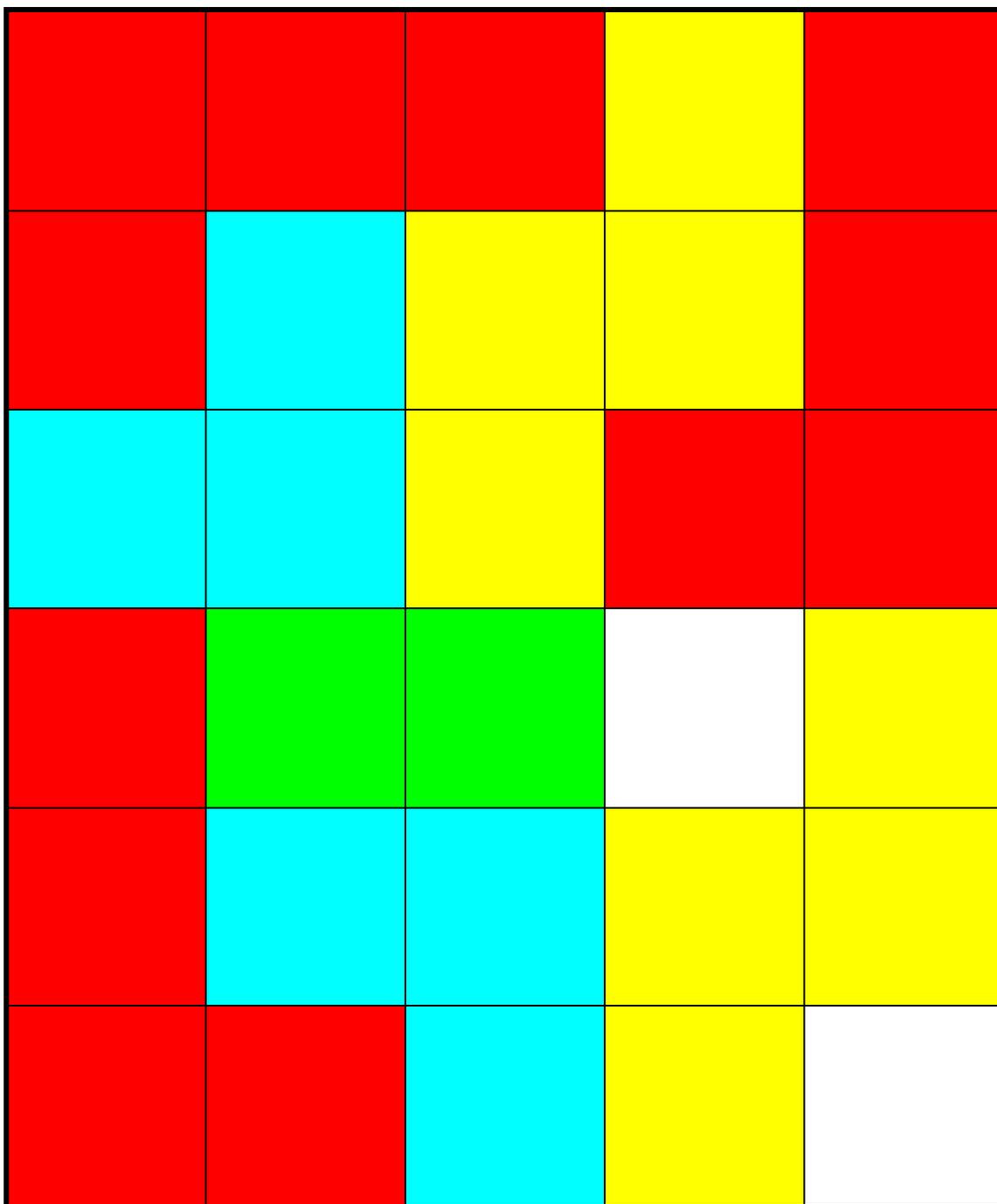
Document pouvant être projeté

Une solution au défi 2



Document pouvant être projeté

Une solution au défi 3



Document pouvant être projeté