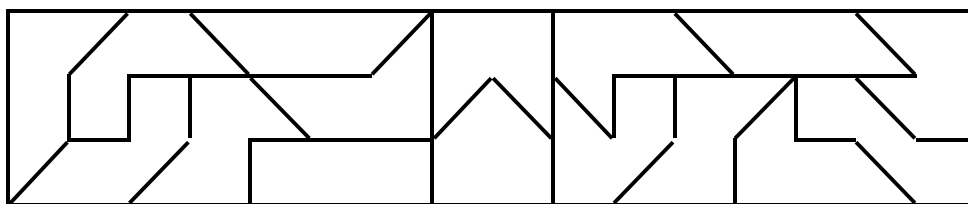


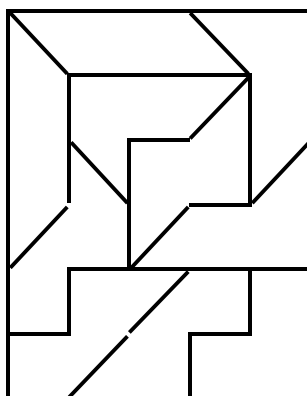
## État des recherches en septembre 2019

### Des rectangles en utilisant le plus possible de pièces

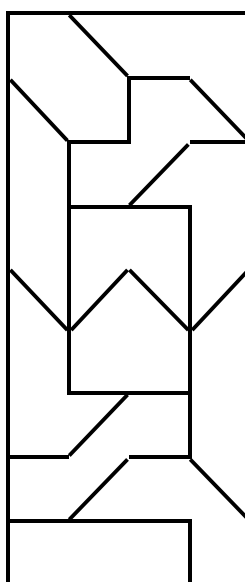
Rectangle 3x16 avec 16 pièces



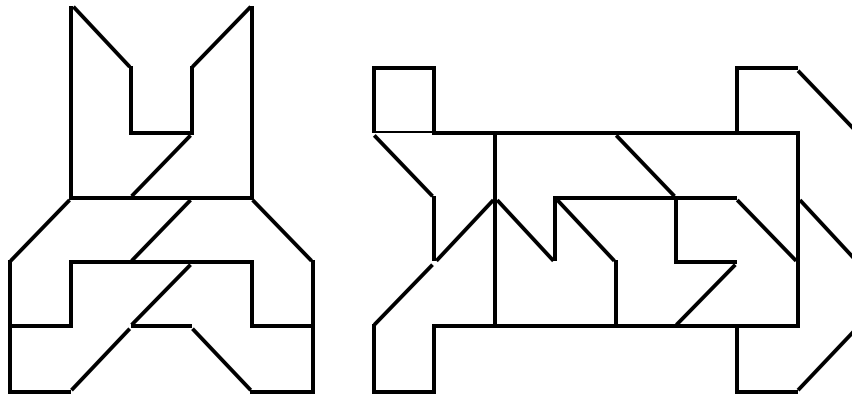
Rectangle 6x5 avec 10 pièces



Rectangle 9x4 avec 12 pièces

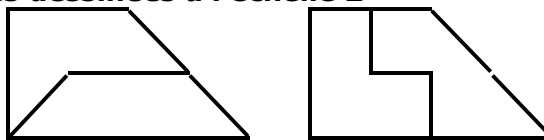


## Des polygones symétriques obtenus avec des pièces non symétriques

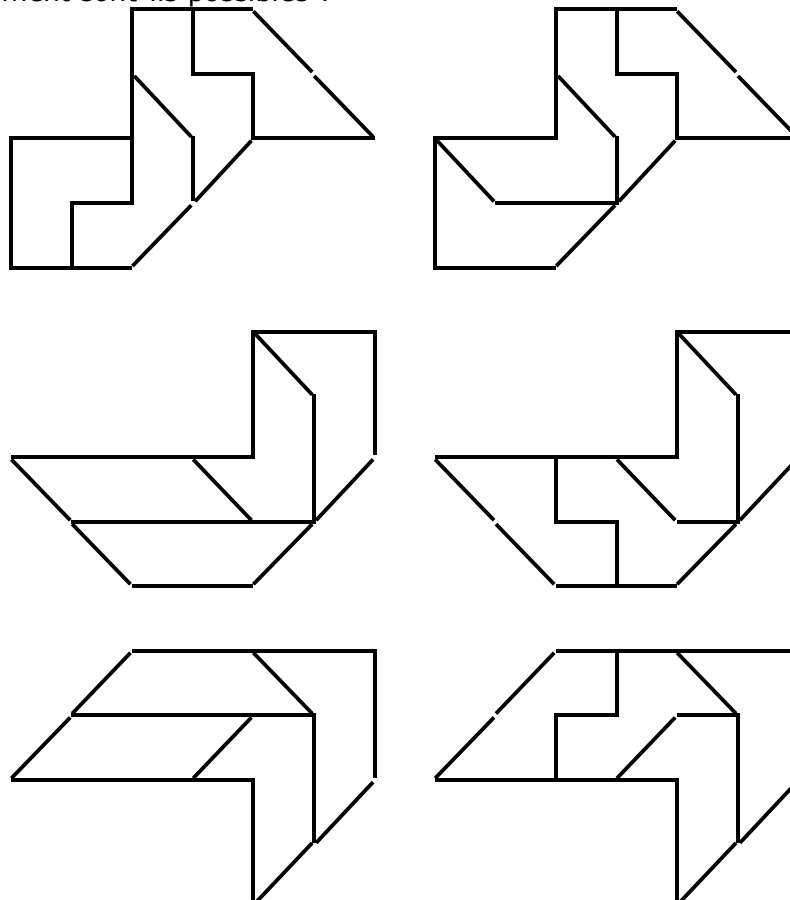


Des paires de pièces non symétriques permettant la réalisation d'un polygone symétrique ont été mises à contribution.

## Recouvrement des pièces dessinées à l'échelle 2



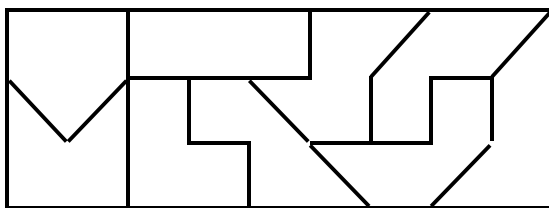
Les assemblages de ces deux recouvrements de trapèzes m'assurent que chaque pièce dessinée à l'échelle 2 peut être recouverte par des pièces échelle 1. D'autres recouvrement sont-ils possibles ?



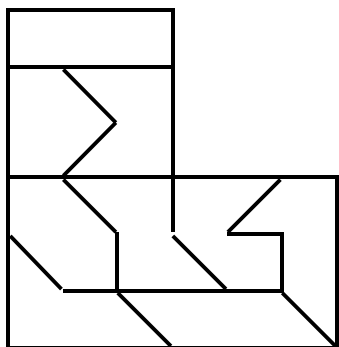
À droite, des pièces symétriques sont utilisées. À gauche, seule des pièces non symétriques sont utilisées. Existe-t-il d'autres dessins de pièces à l'échelle 2 pouvant être recouvertes de ces deux manières ?

### Recouvrement des pièces dessinées à l'échelle 3

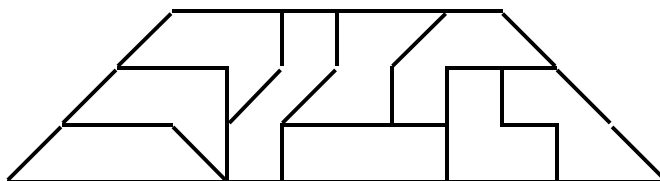
La recherche ne fait que commencer...



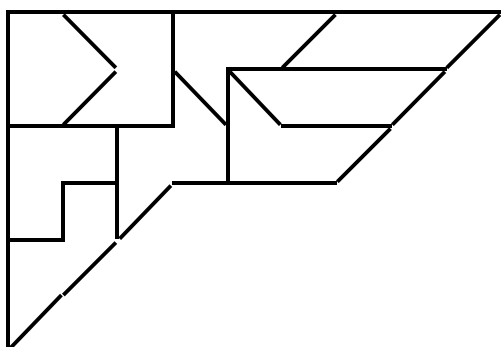
17



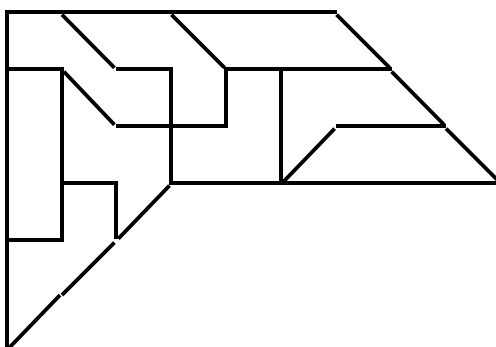
14



12

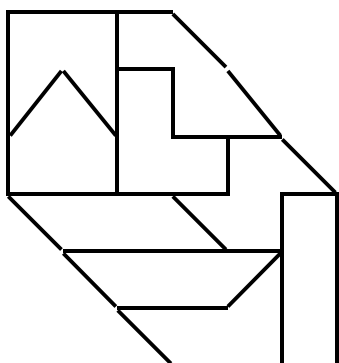


6

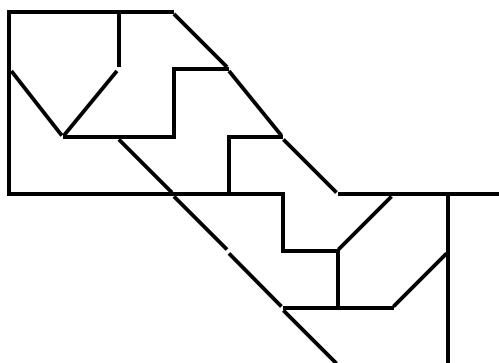


1

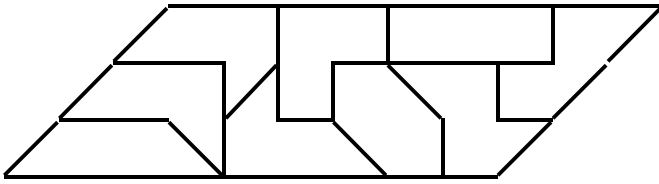
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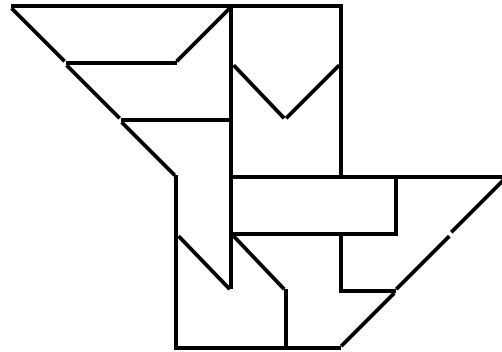
19



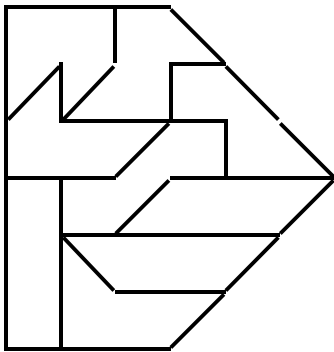
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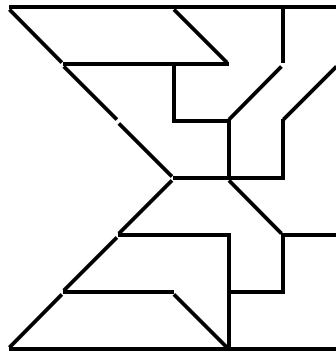
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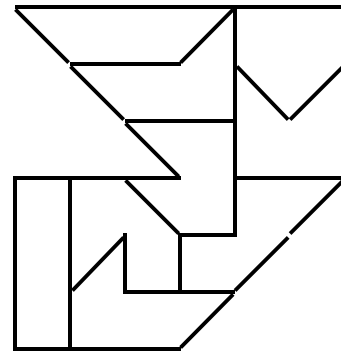
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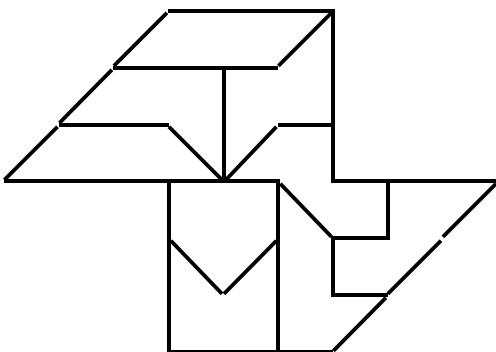
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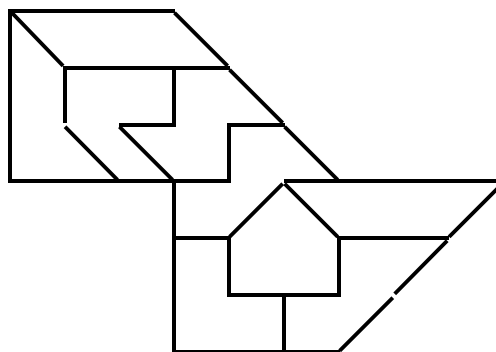
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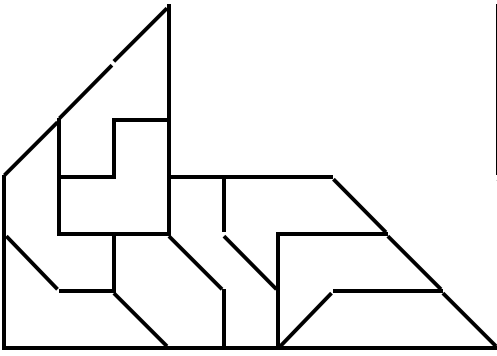
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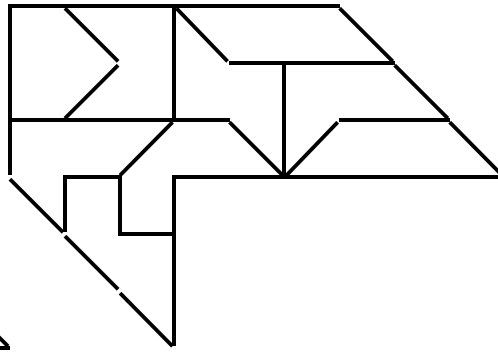
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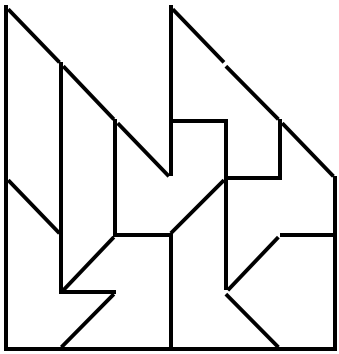
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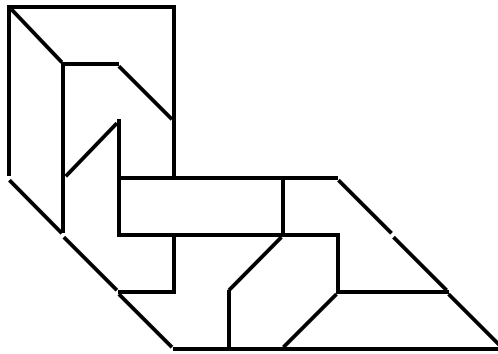
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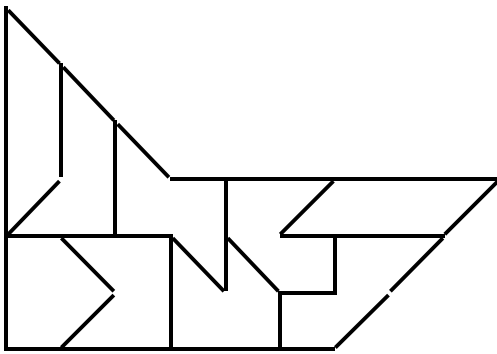
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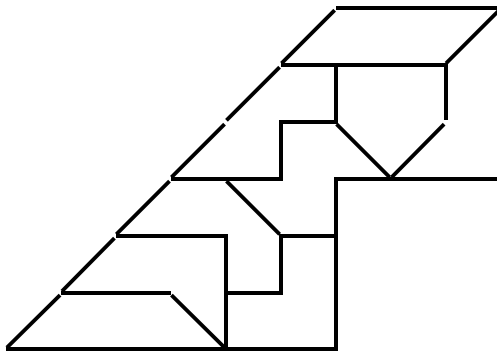
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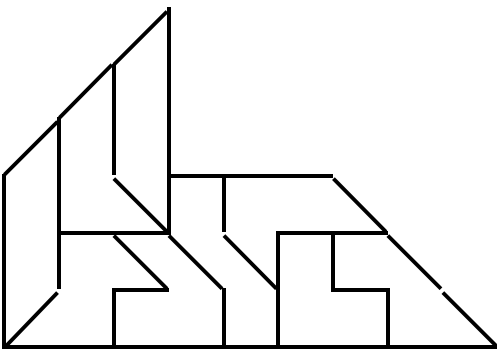
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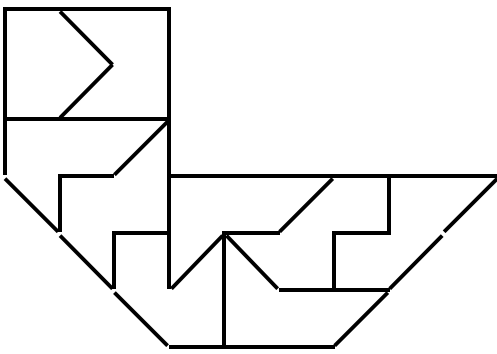
1a



11



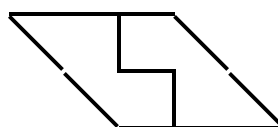
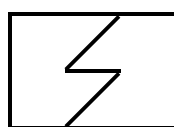
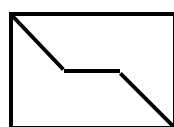
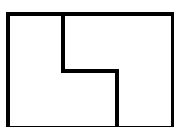
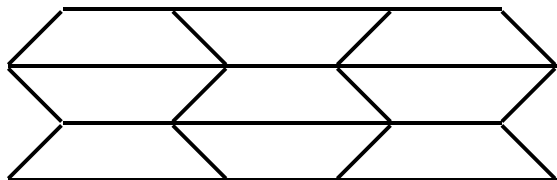
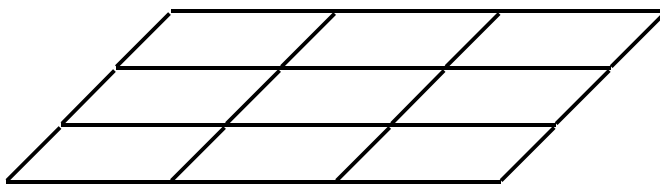
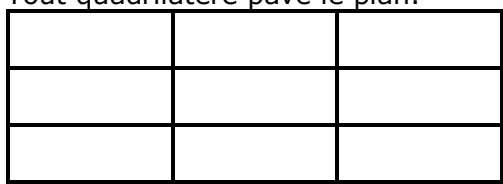
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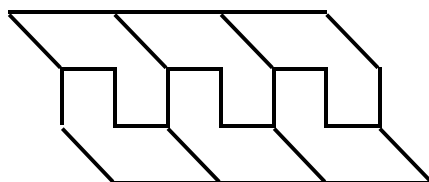
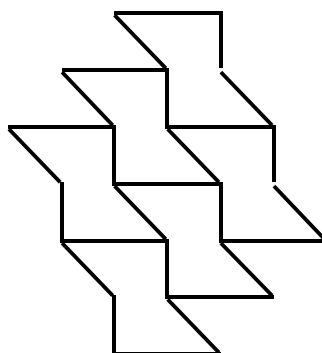
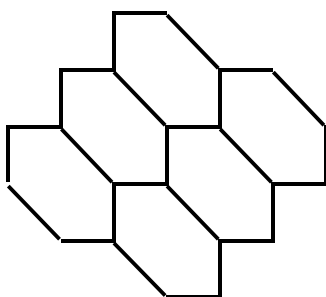
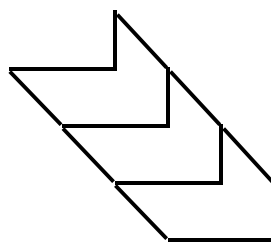
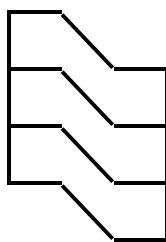
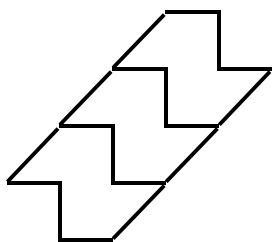
7

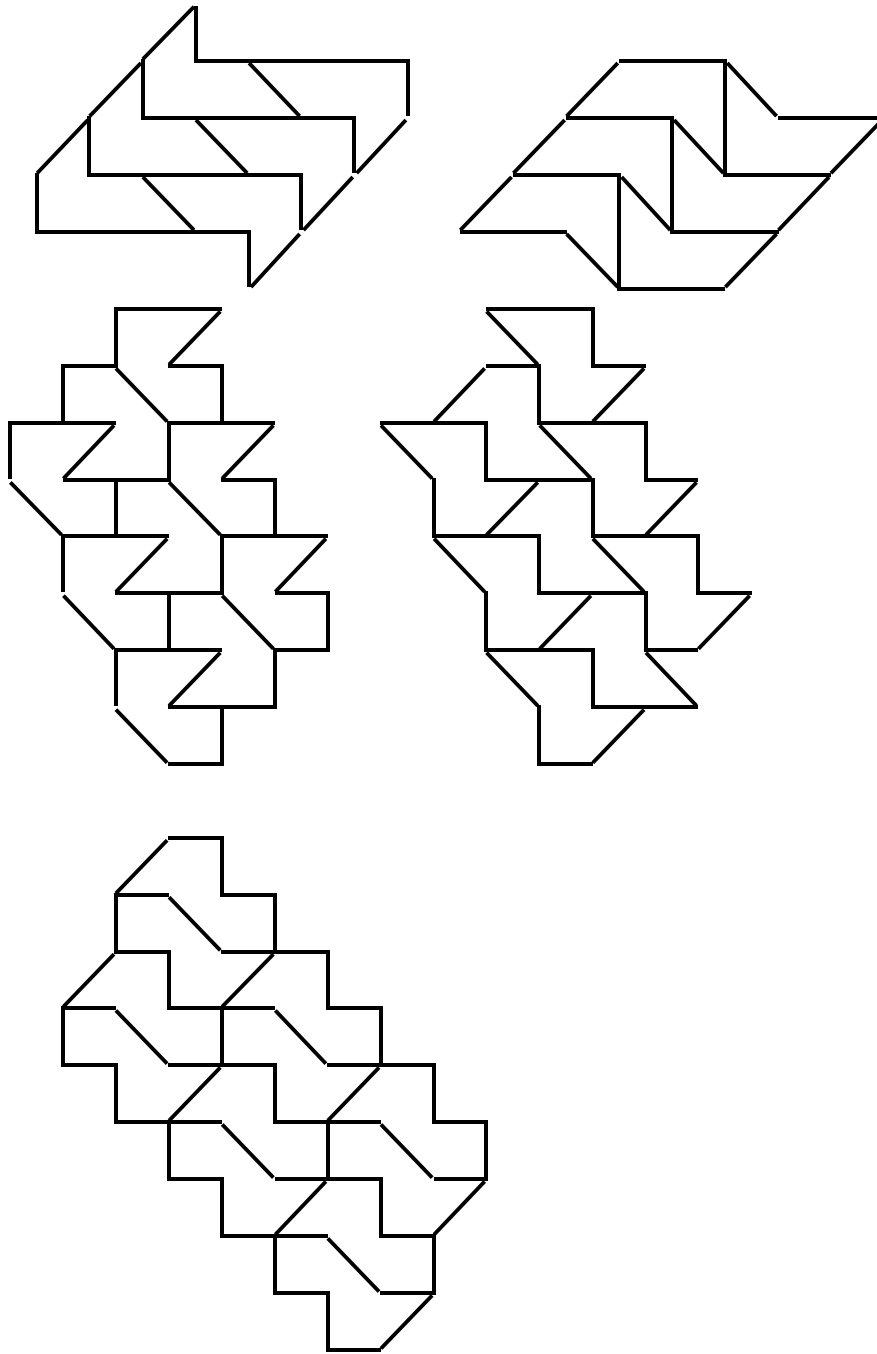
### Pavages avec des bimi-L

Tout quadrilatère pave le plan.

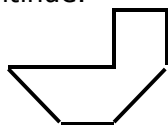


Des pièces, seules ou deux par deux, forment des bandes qui, enchevêtrées, pavent le plan





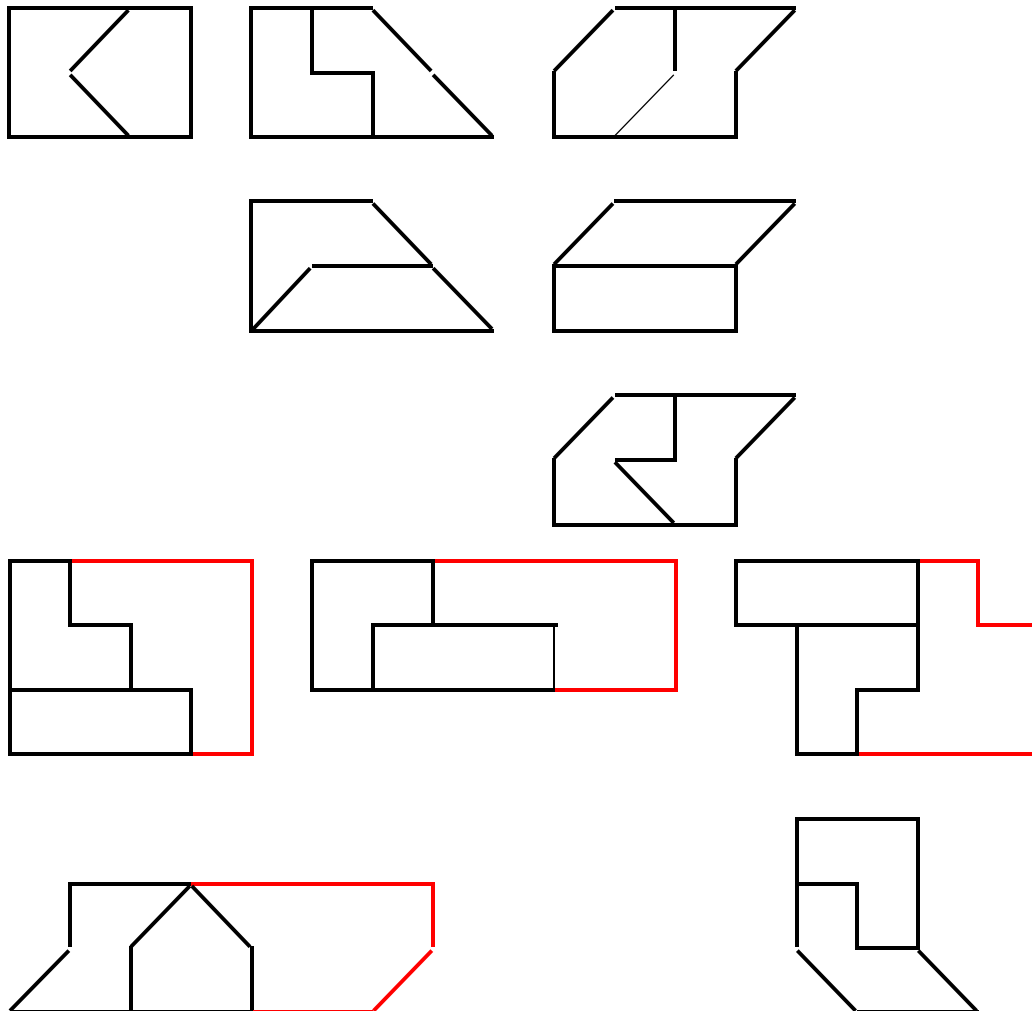
Concernant la pièce n°7, la recherche continue.



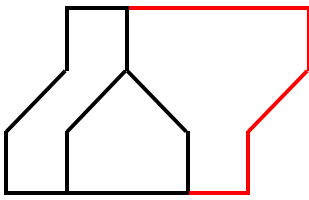
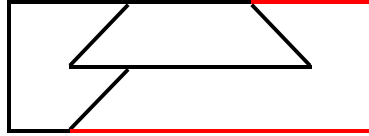
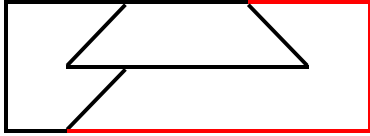
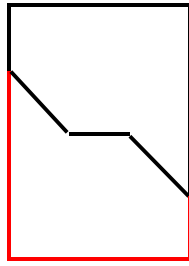
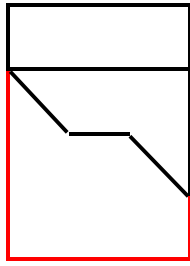
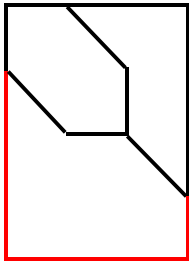
## Pavages avec deux pièces

Des paires de pièces pavent le plan.

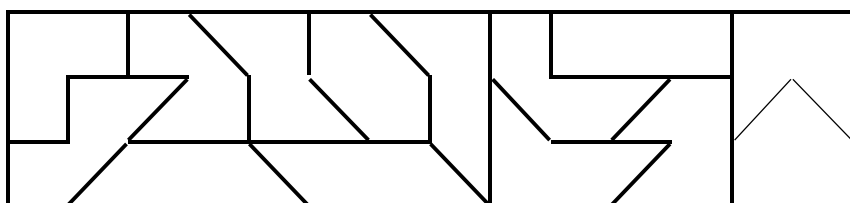
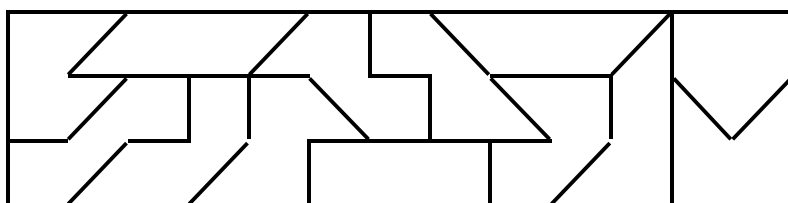
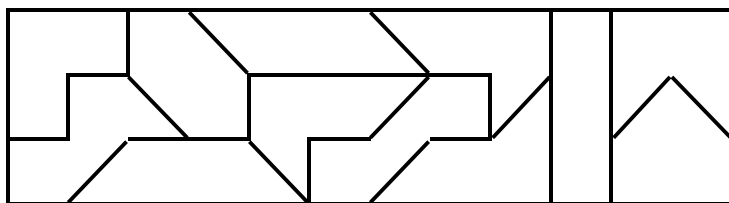
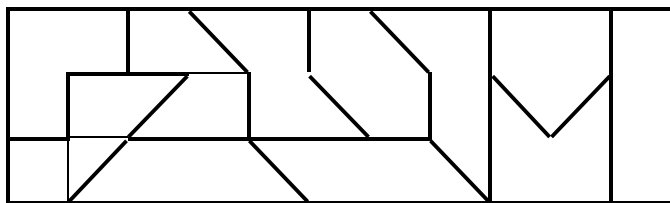
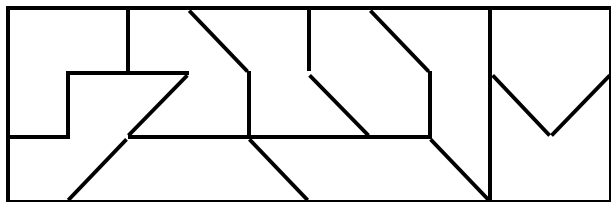
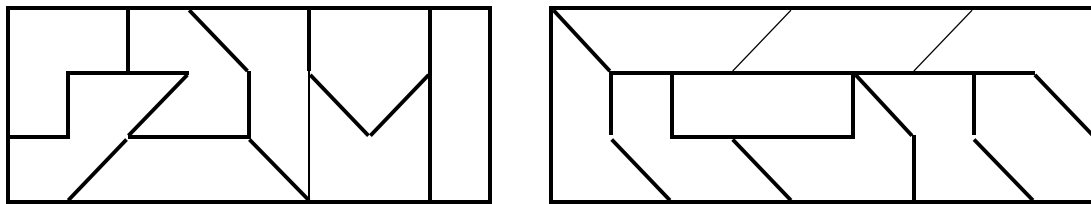
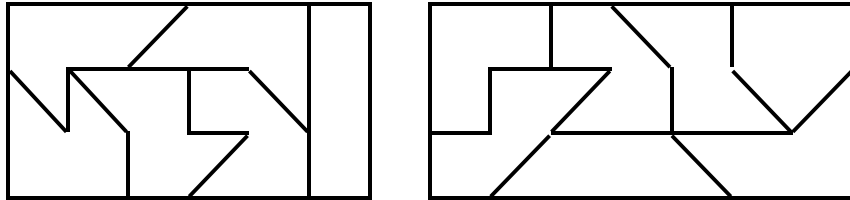
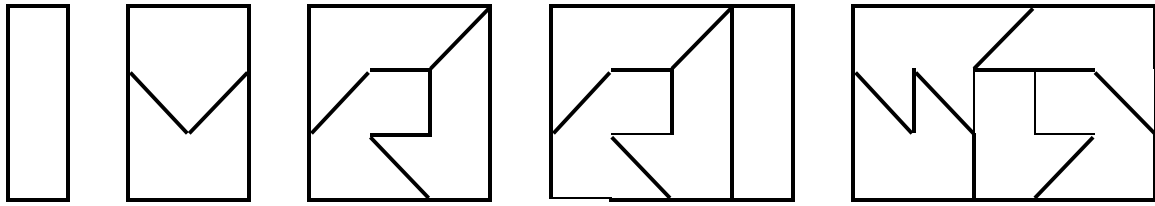
Ce n'est qu'un début de collection...

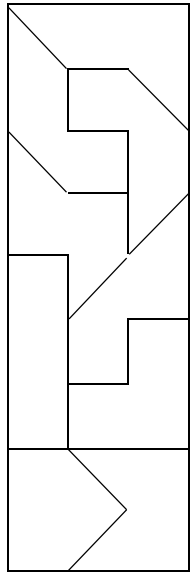
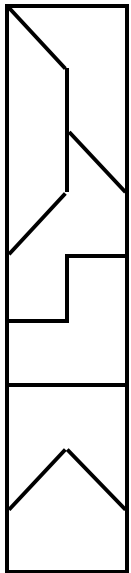
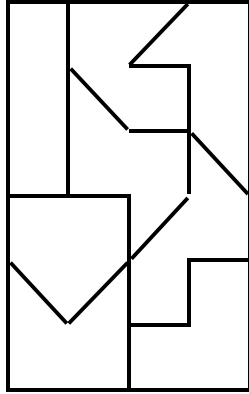
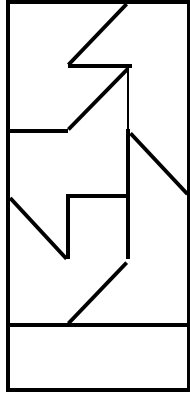
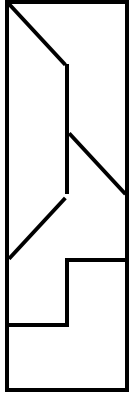
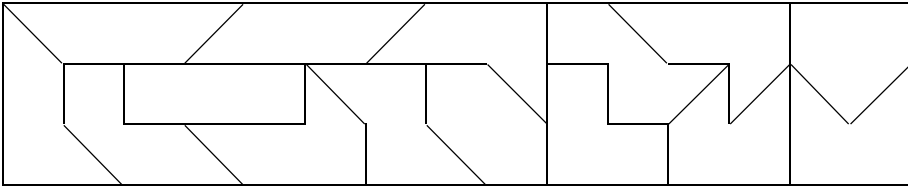






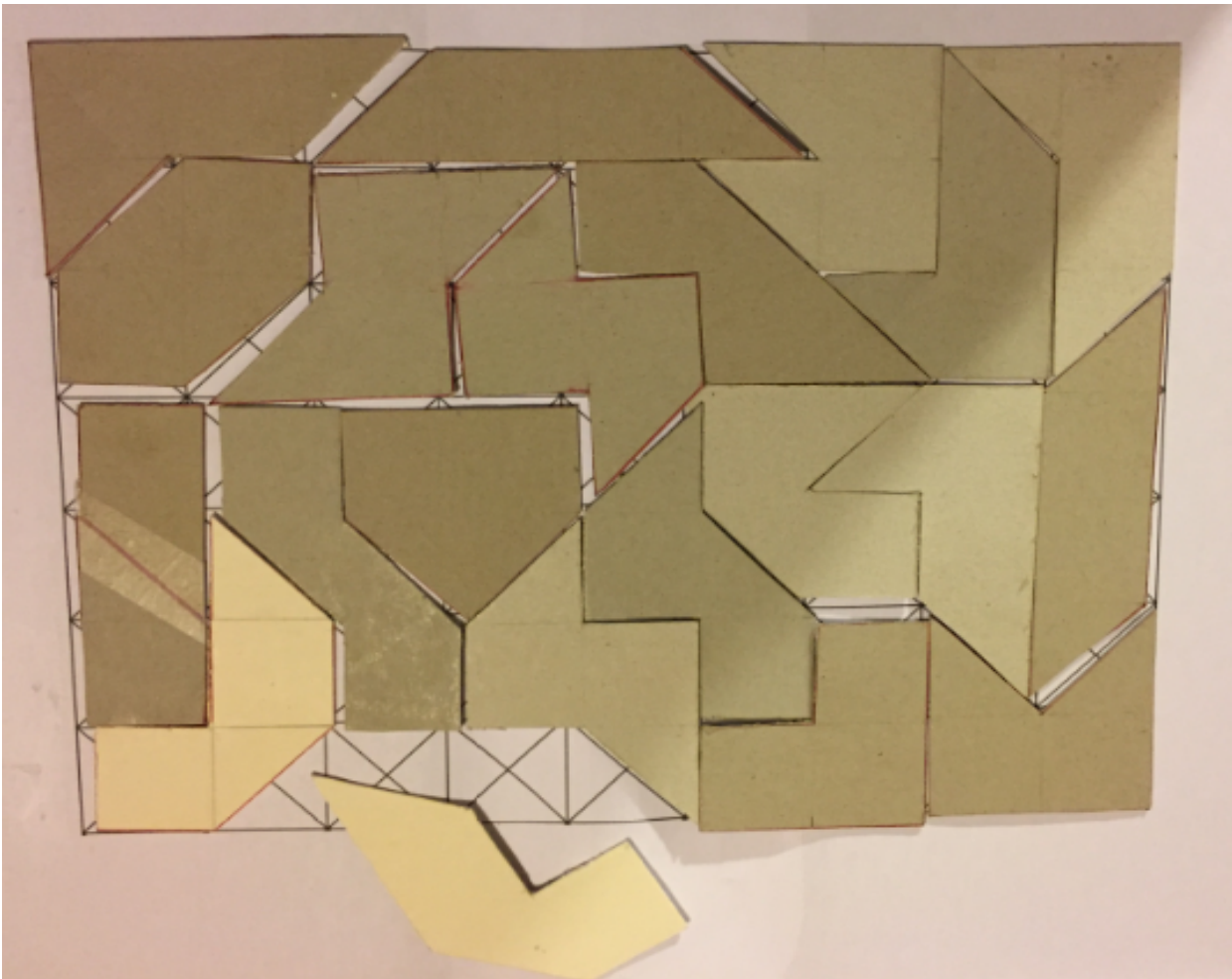
**D'autres rectangles**





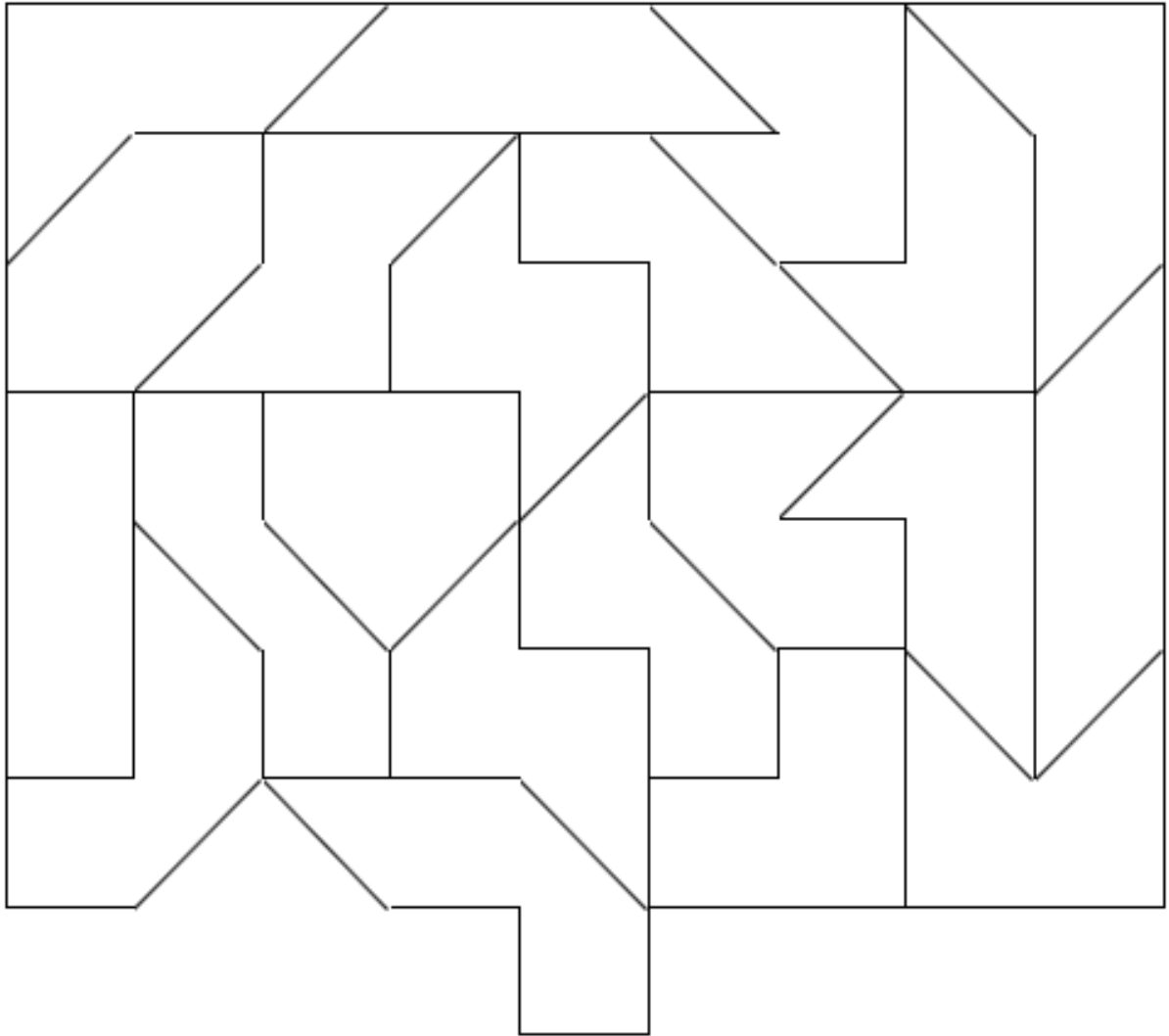
### **Vers un rectangle utilisant toutes les pièces**

« Grrrrr !!! Toujours pas ! Je l'aurai, je l'aurai ... » nous dit un joueur lorrain. Nous pouvons remarquer le plateau utilisé.



**Pour construire ses « bimi-L » (1)**

À reproduire sur carton ou imprimer sur bristol



**Pour construire ses « bimi-L » (2)**

À reproduire sur carton ou imprimer sur bristol

