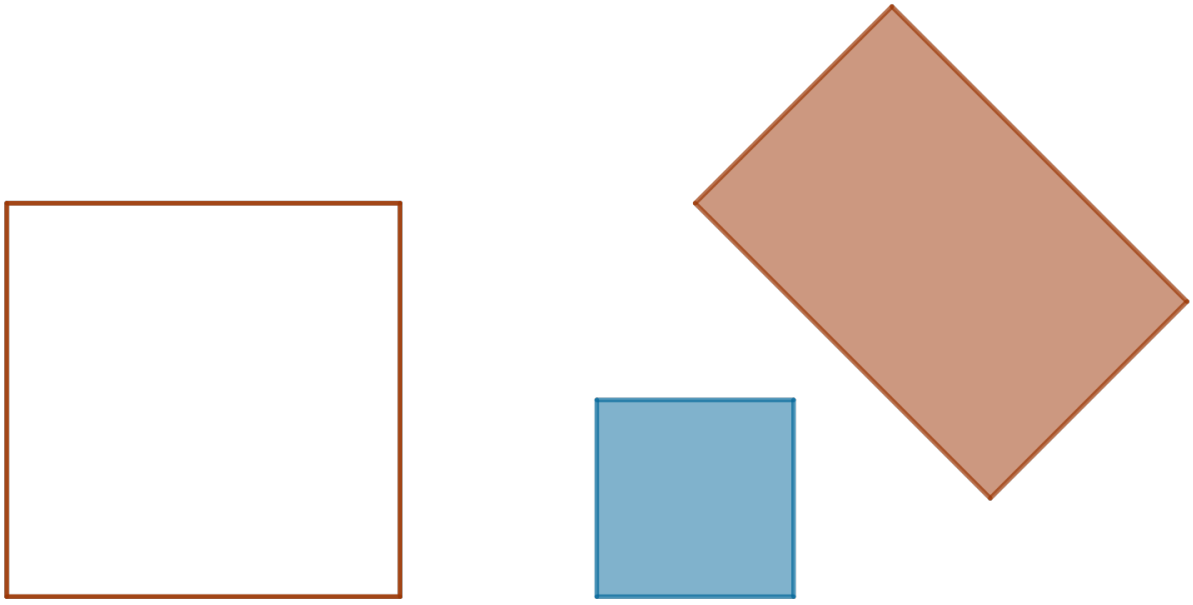
AVEC LES PUZZLES DE FRIBOURG ET *PYTHAGORAS* (3)

Le puzzle *Pythagoras* est composé des sept pièces ci-contre.

Défi 1 : En utilisant uniquement les pièces brunes, réalise le rectangle de droite (ce rectangle a pour largeur le double du côté du petit carré brun).

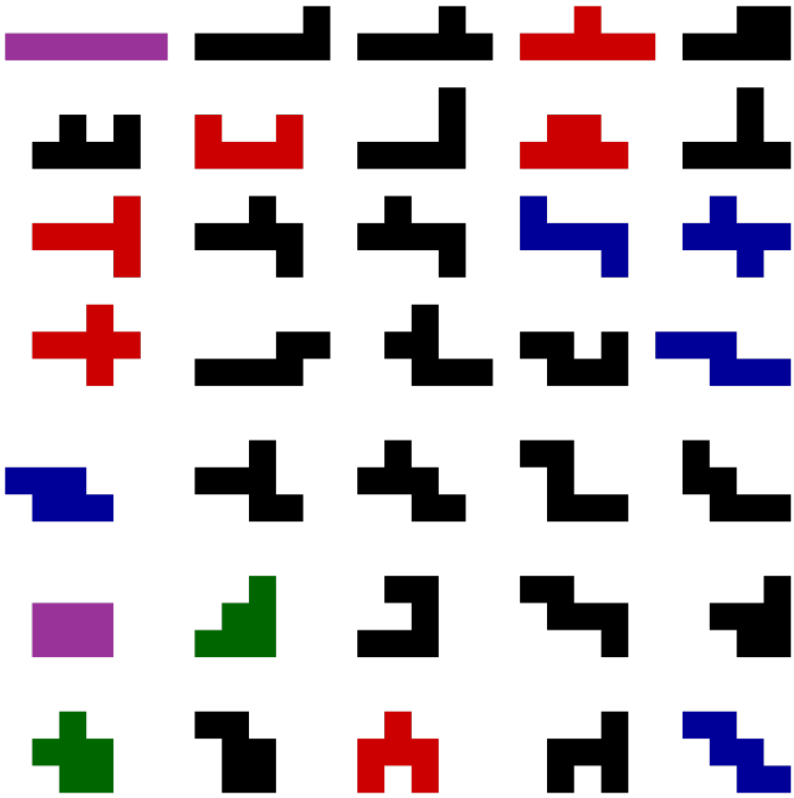
Défi 2 : À l'aide des sept pièces du puzzle, réalise le carré de gauche.



Défi 3 : Hexaminos

Un hexamino est un assemblage de six carrés identiques.

Voici les trente-cinq hexaminos différents.

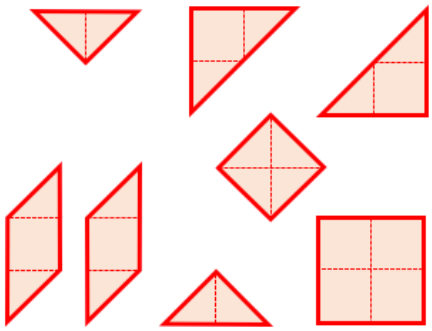


https://fr.wikipedia.org/wiki/Hexamino

Avec les six pièces brunes du puzzle *Pythagoras*, combien de ces hexaminos peut-on réaliser ?

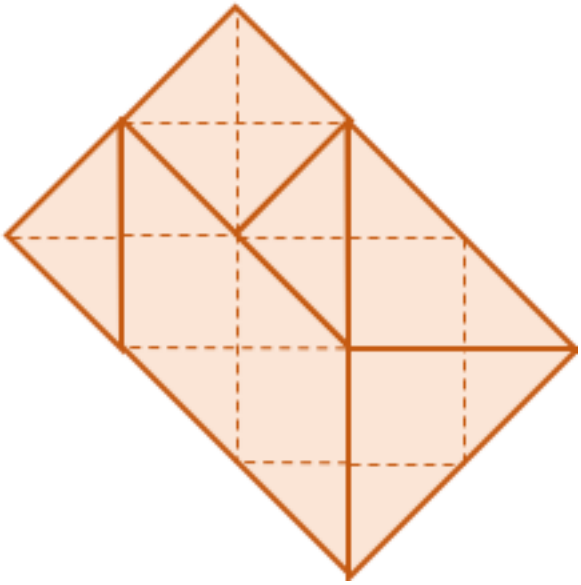
Défi 3 : Hexaminos (suite)

Les hexaminos non réalisés à l'aide des pièces du puzzle *Pythagoras* peuvent-ils l'être à l'aide de celles du puzzle de Fribourg ?

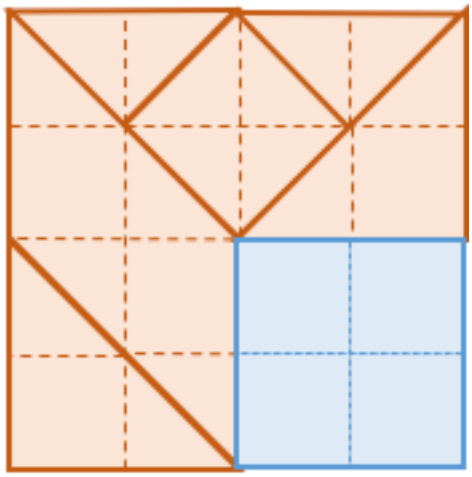


Des solutions

Défi 1

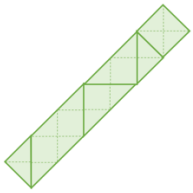
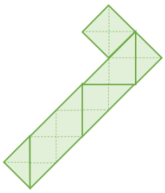
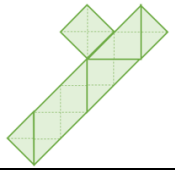
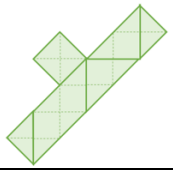
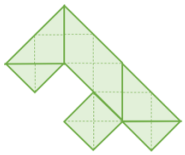
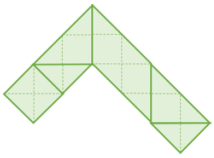
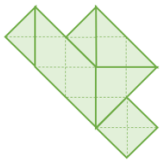
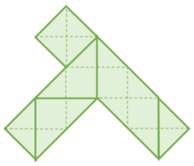
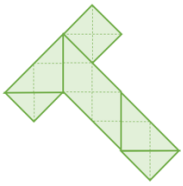
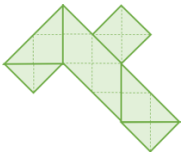
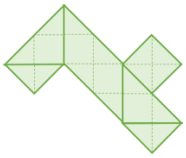
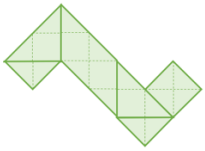
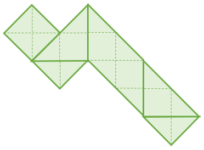
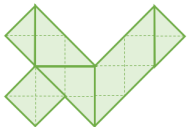
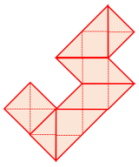
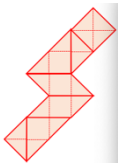
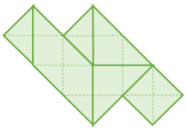
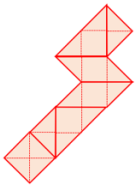
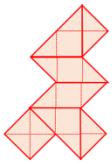
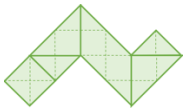
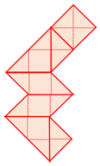
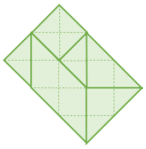
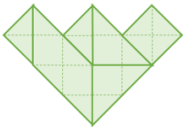
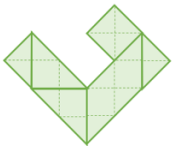
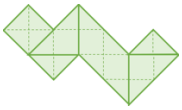
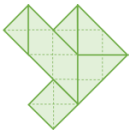
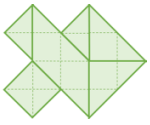
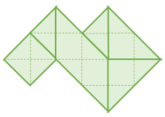
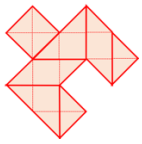
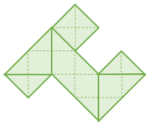


Défi 2



Défi 3

Page suivante, voici l'état des recherches au 16 septembre 2021. Les hexaminos verts sont ceux trouvées avec le puzzle Pythagoras (et donc également avec le puzzle de Fribourg). Les hexaminos rouges sont ceux qui n'ont été trouvés qu'avec le puzzle de Fribourg.

1 	2 	3 	4 	5 
6 	7 	8 	9 	10 
11 	12 	13 	14 	15
16	17 	18 	19 	20 
21 	22 	23 	24 	25 
26 	27 	28 	29 	30 
31 	32 	33 	34 	35