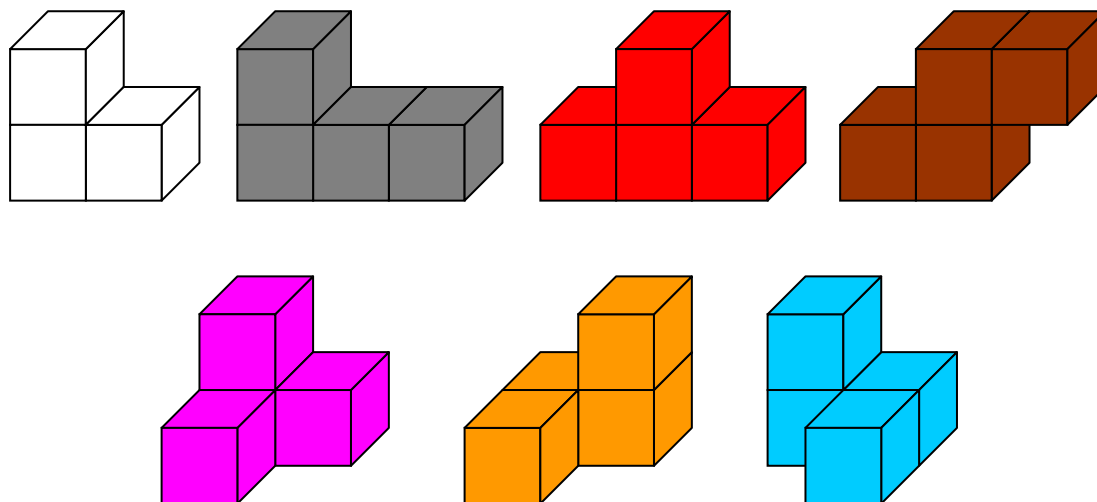
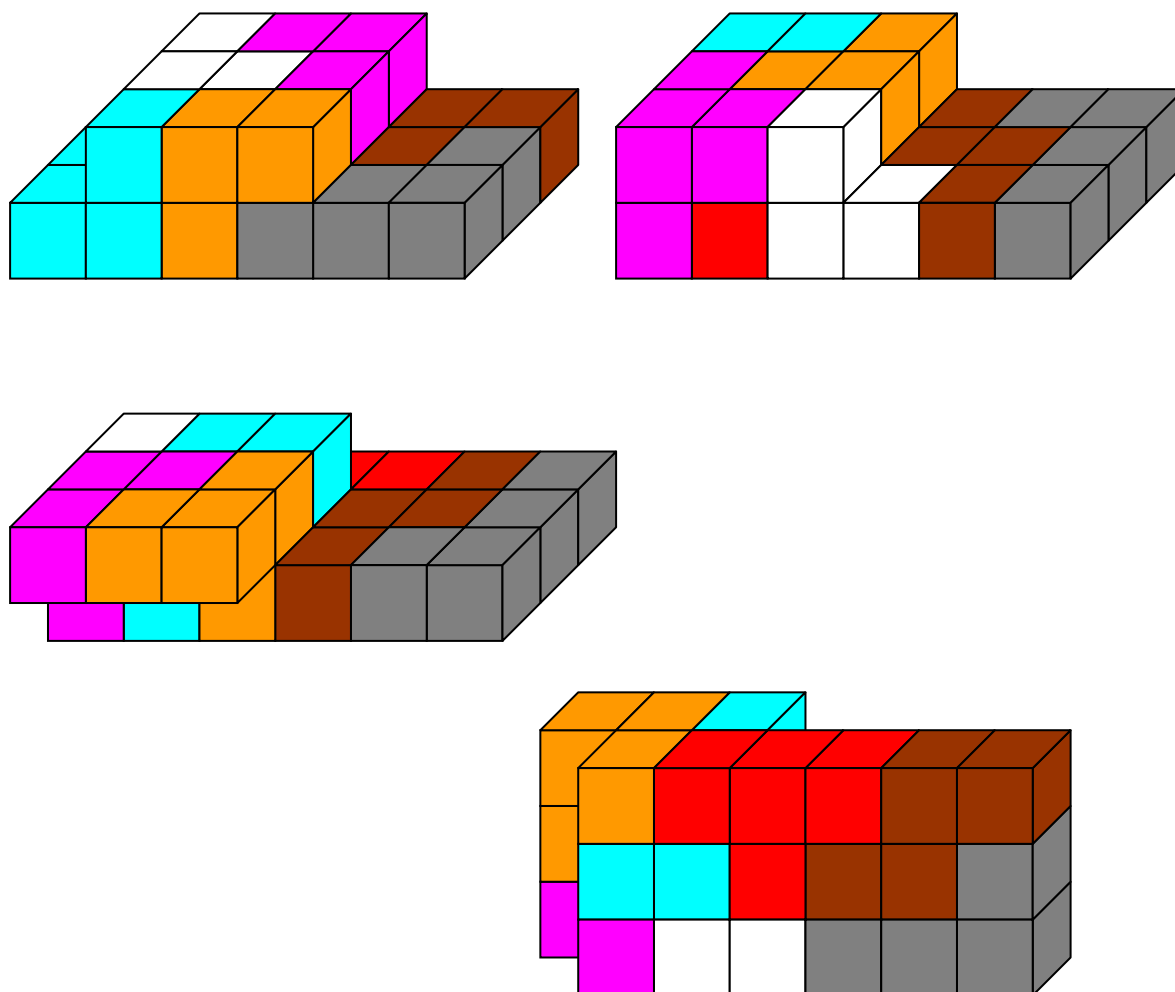


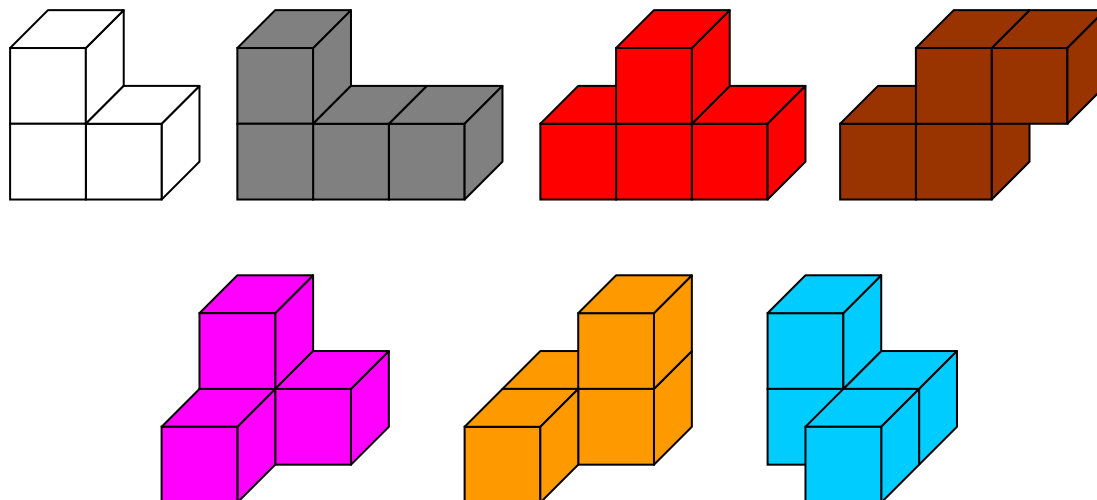
16 Pour 1x3x6 + 1x3x3



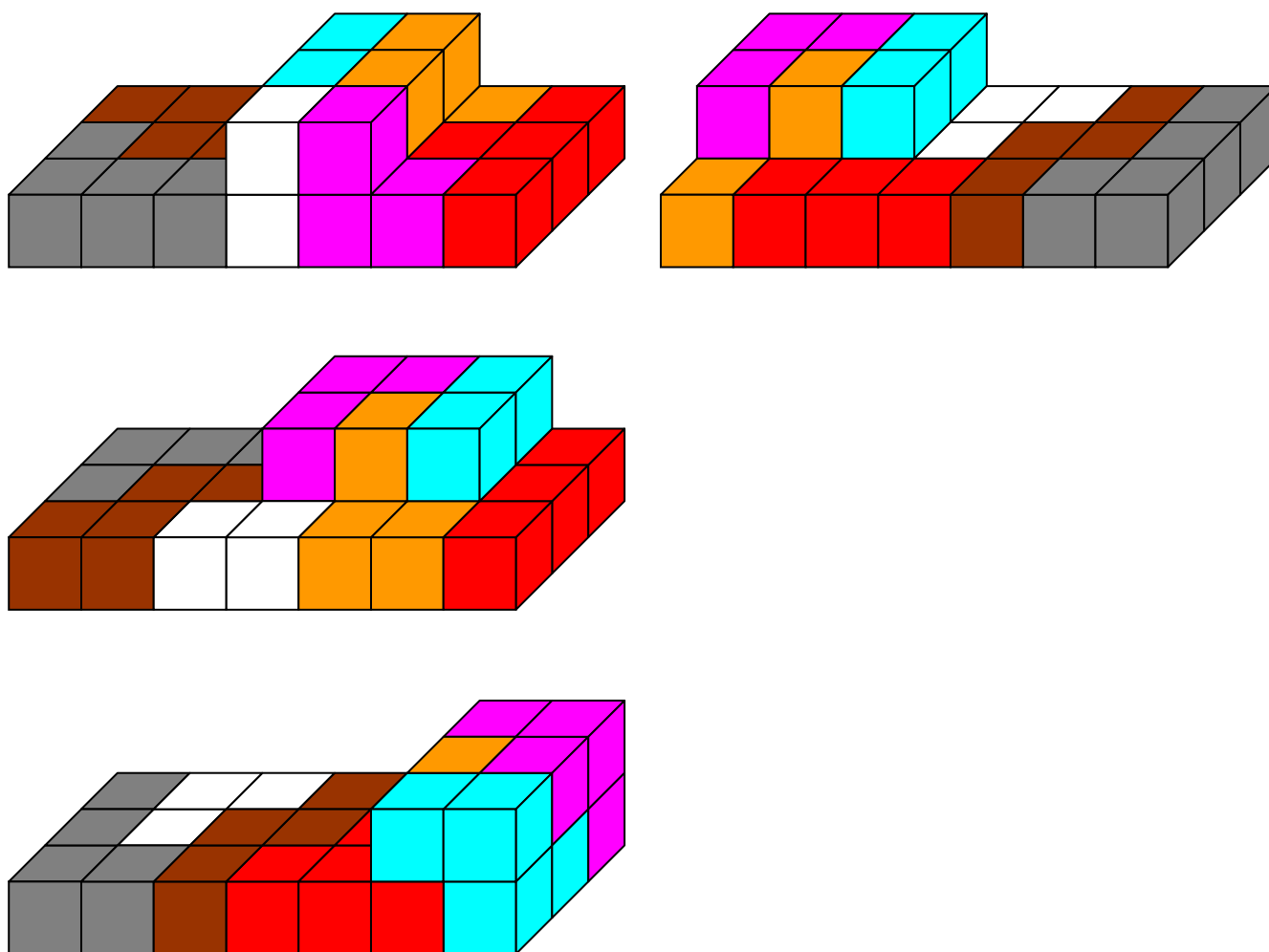
Voici quelques solides réalisés avec les sept pièces du cube Soma.



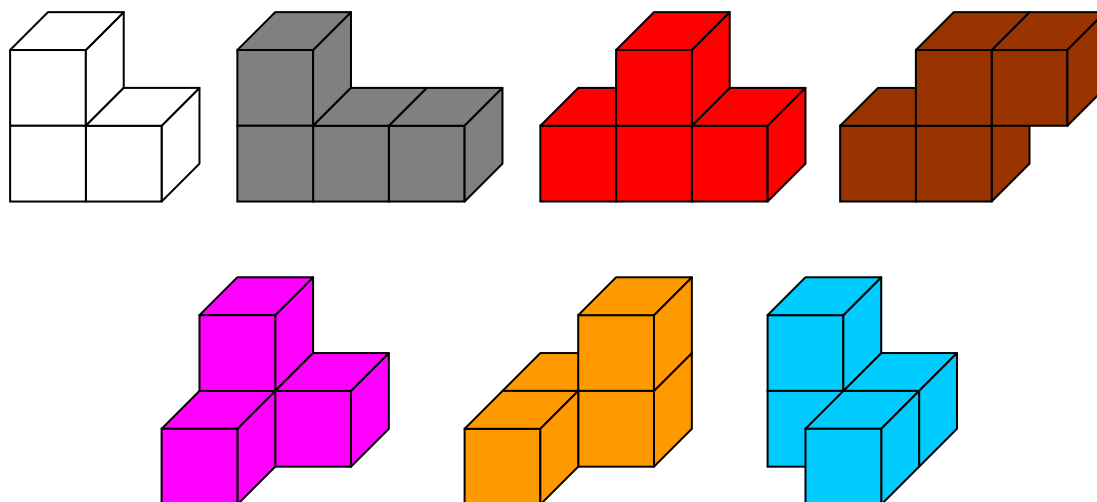
16 Pour $1 \times 3 \times 7 + 1 \times 2 \times 3$



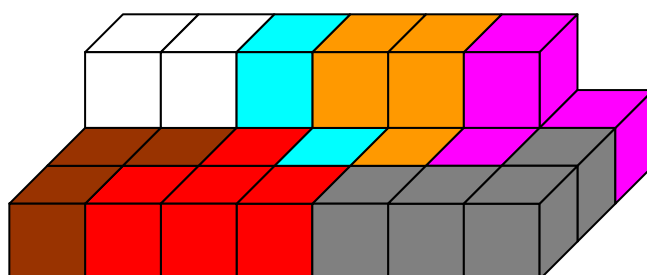
Voici quelques solides réalisés avec les sept pièces du cube Soma.



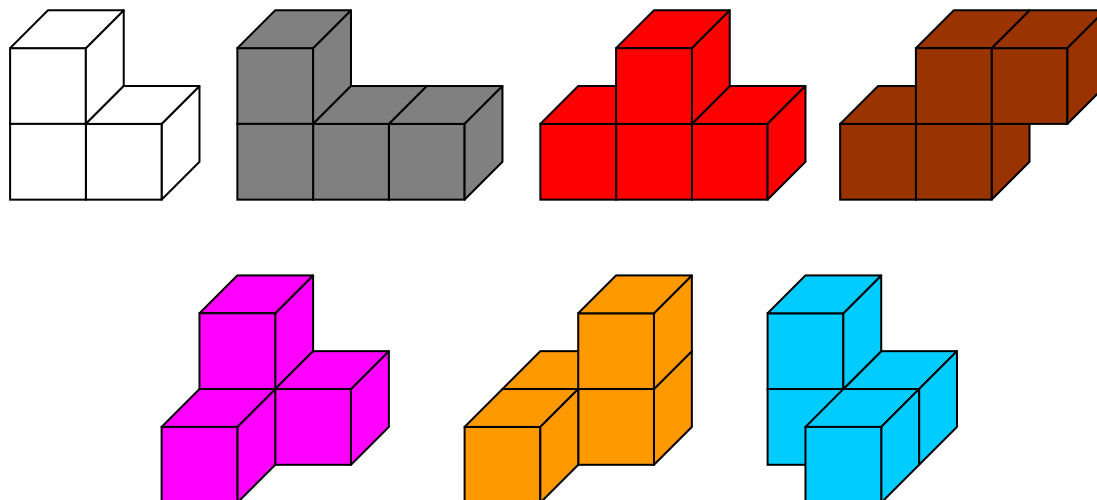
16 Pour $1 \times 3 \times 8 + 1 \times 1 \times 6$



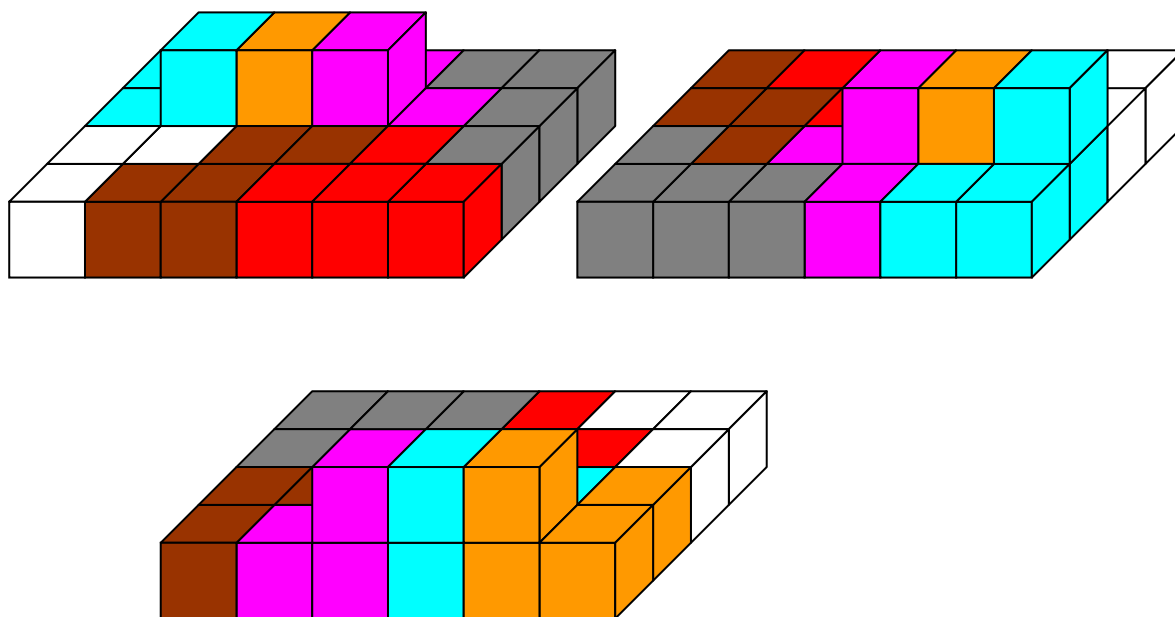
Voici un solide réalisé avec les sept pièces du cube Soma.



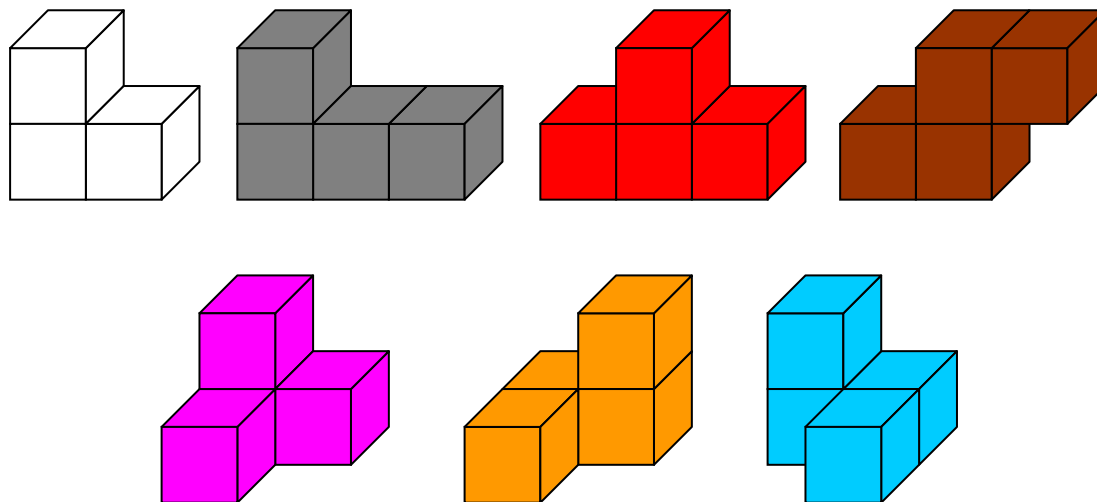
16 Pour 1x4x6 + 1x1x3



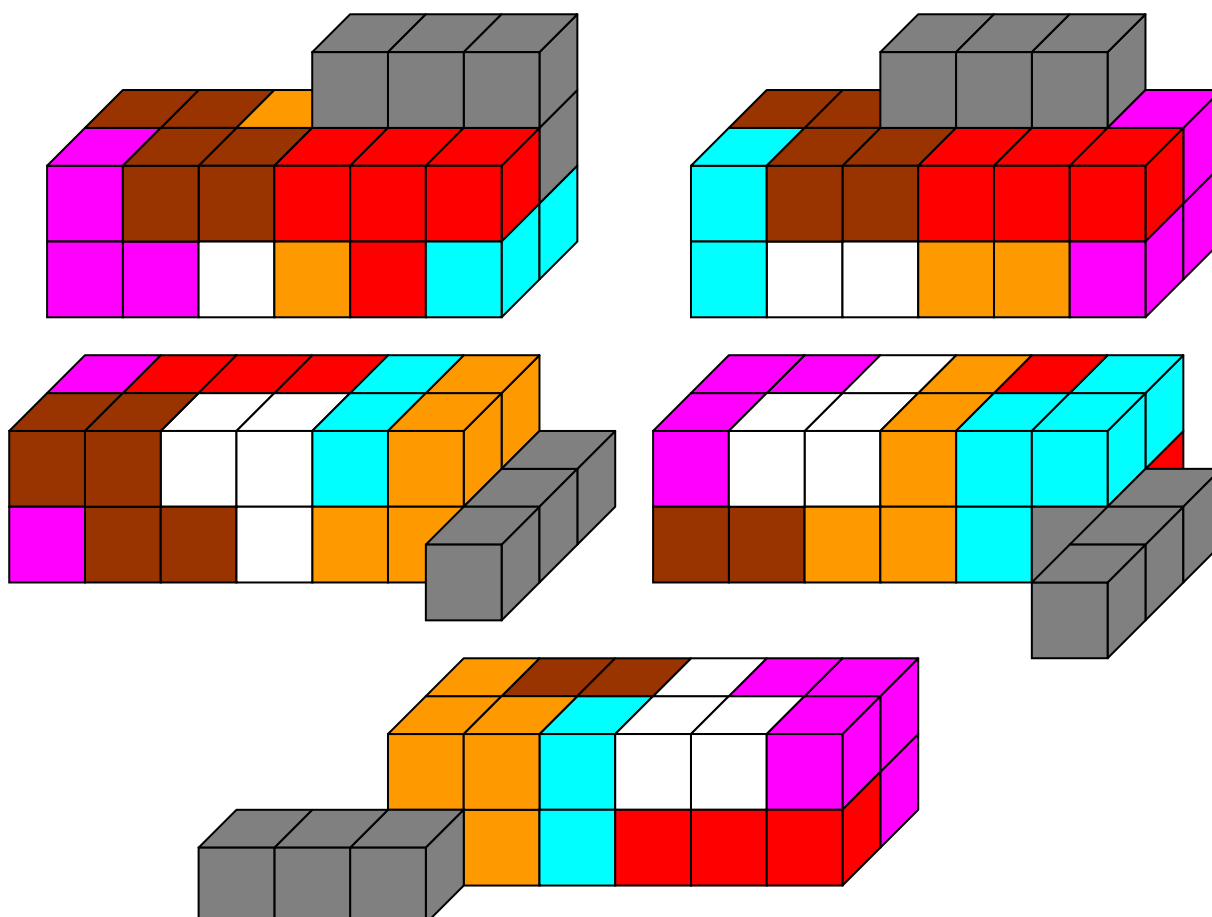
Voici quelques solides réalisés avec les sept pièces du cube Soma.

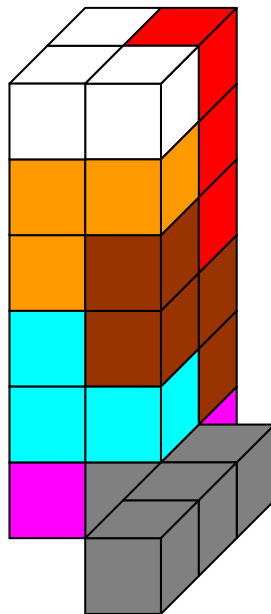
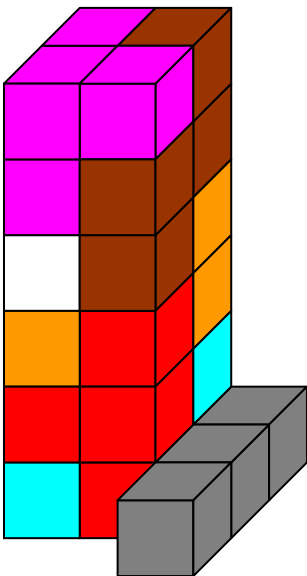
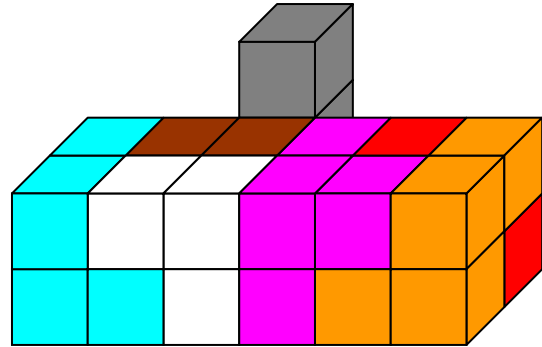
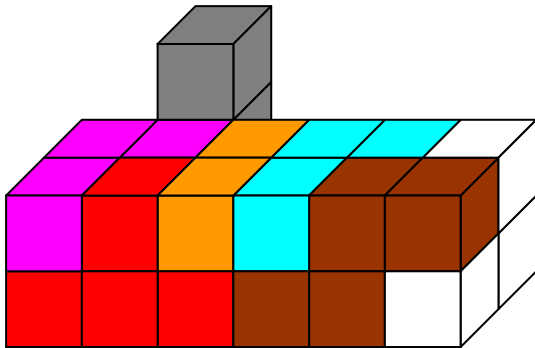
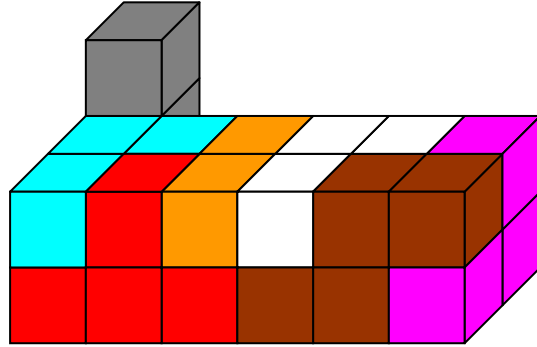
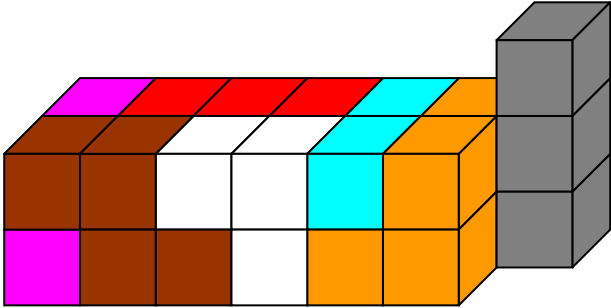
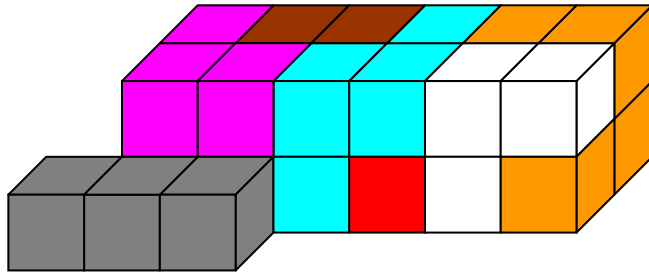


16 Pour 2x2x6 + 1x1x3

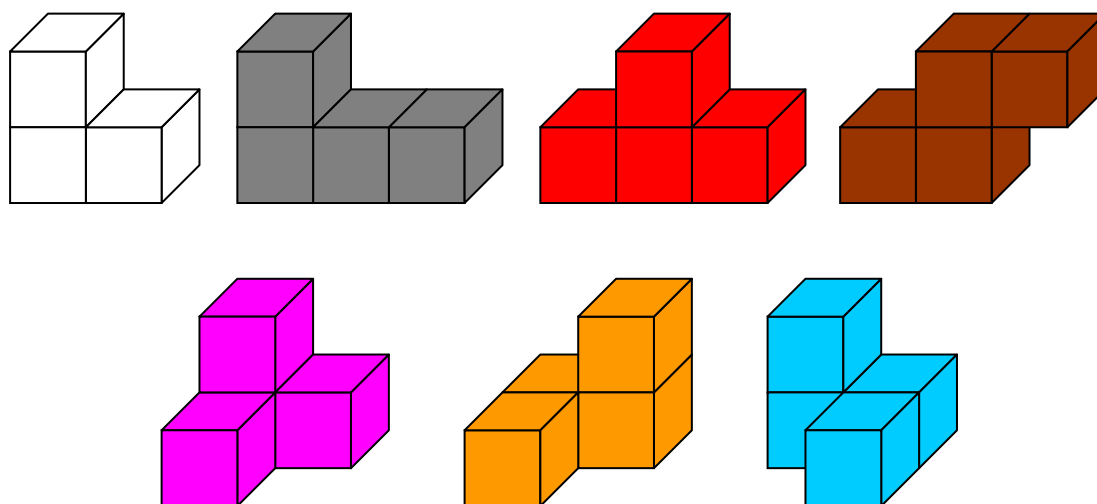


Voici quelques solides réalisés avec les sept pièces du cube Soma.

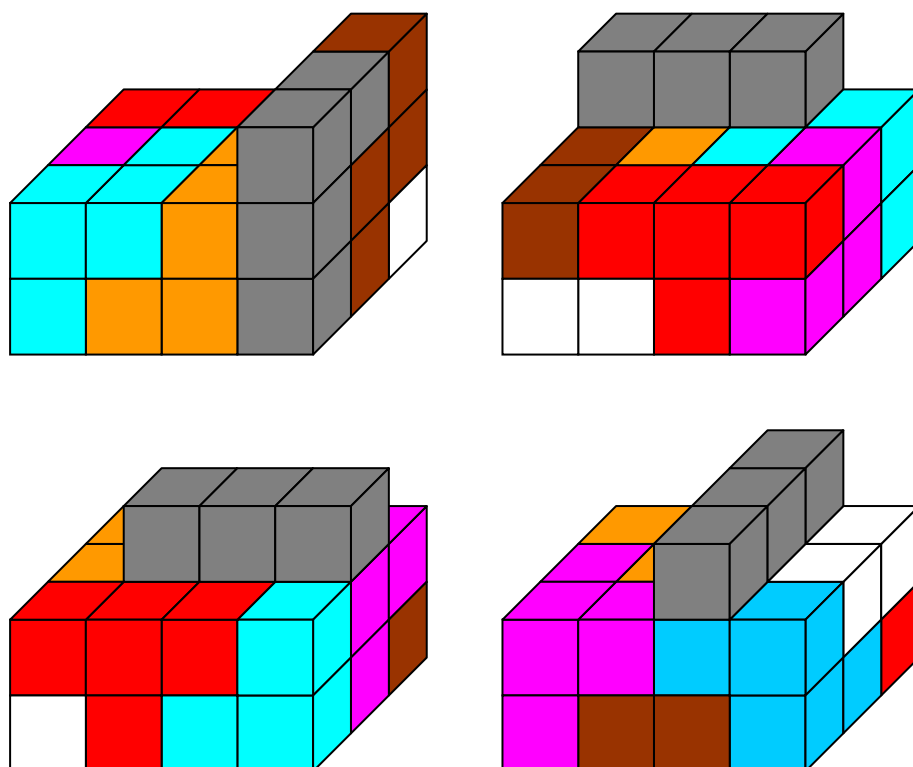


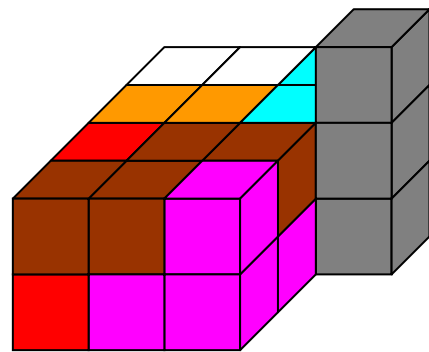
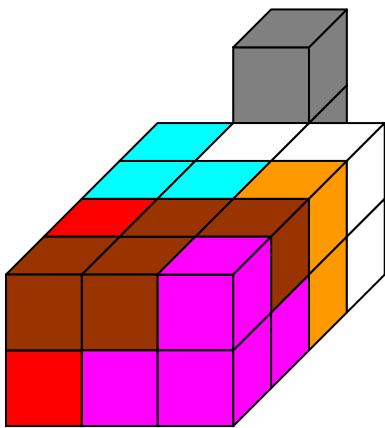
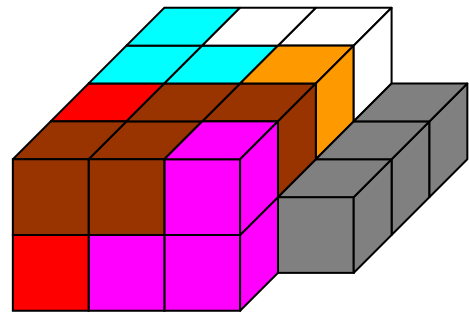
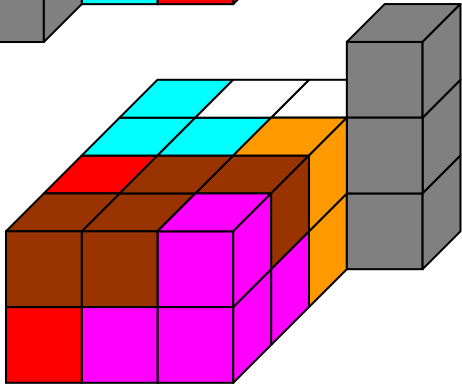
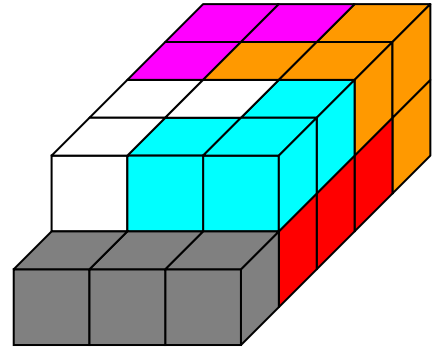
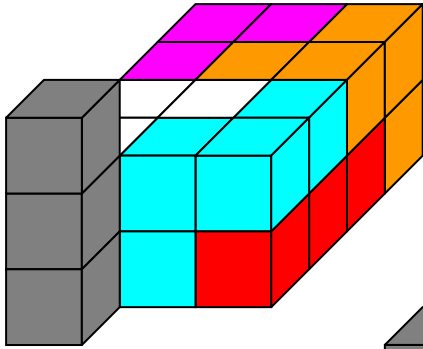
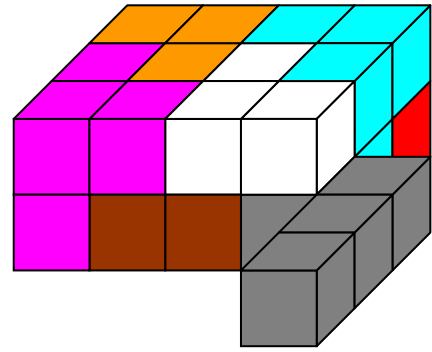
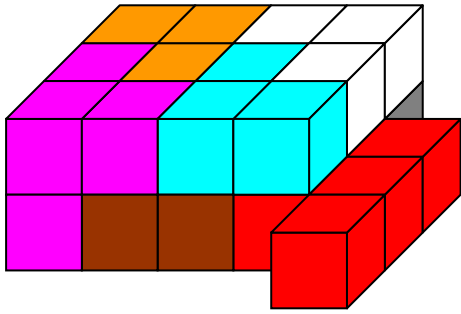


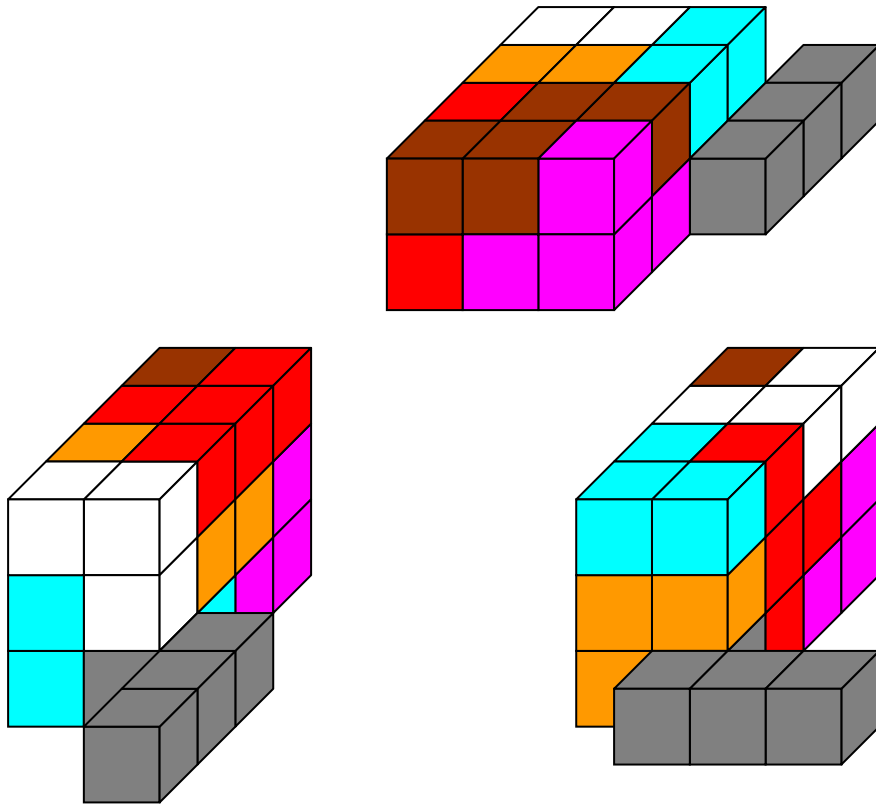
16 Pour $2 \times 3 \times 4 + 1 \times 1 \times 3$



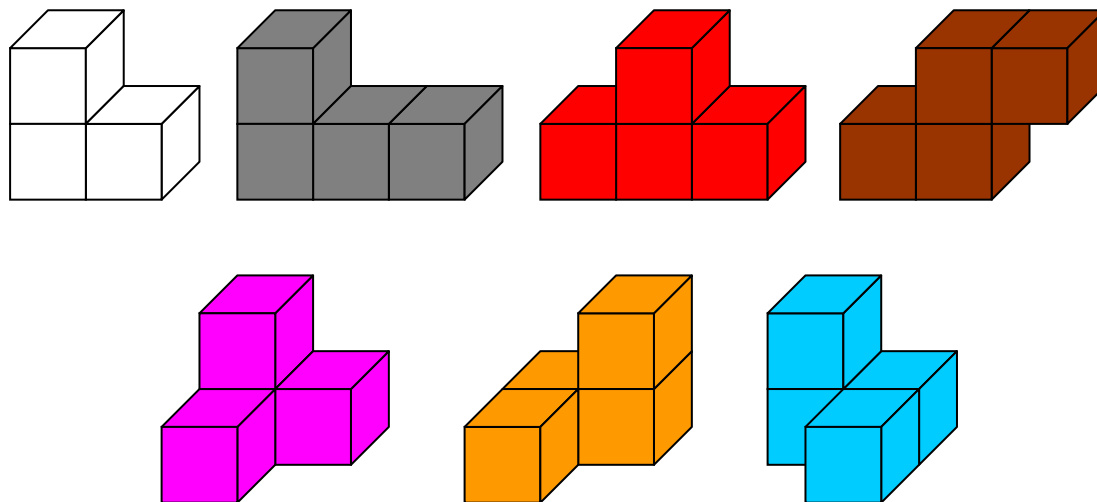
Voici quelques solides réalisés avec les sept pièces du cube Soma.



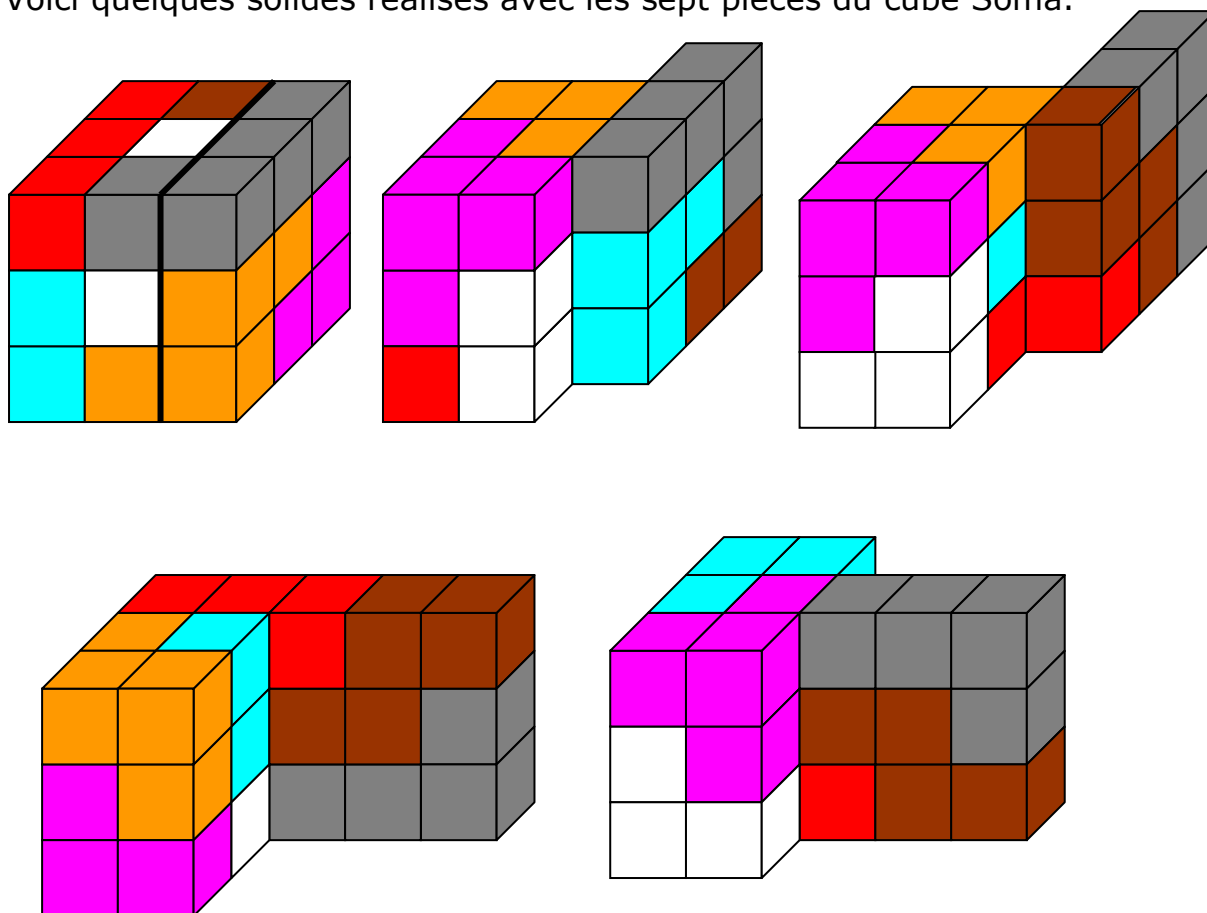


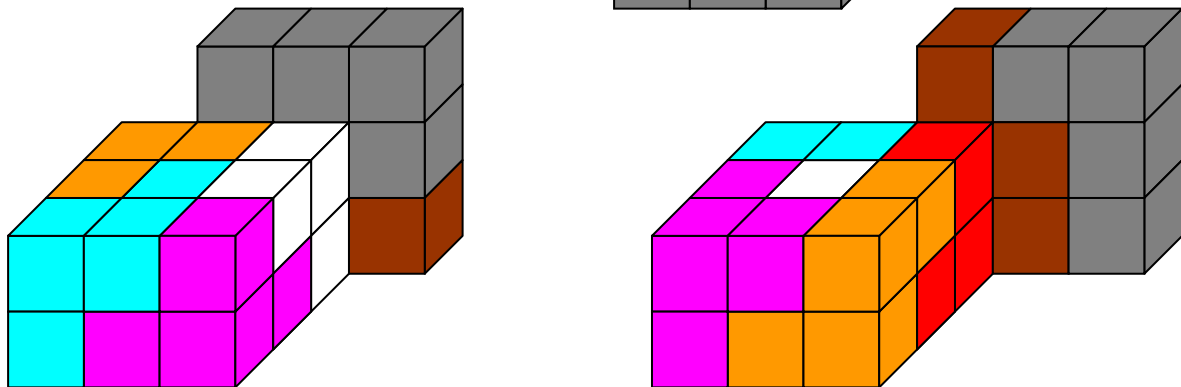
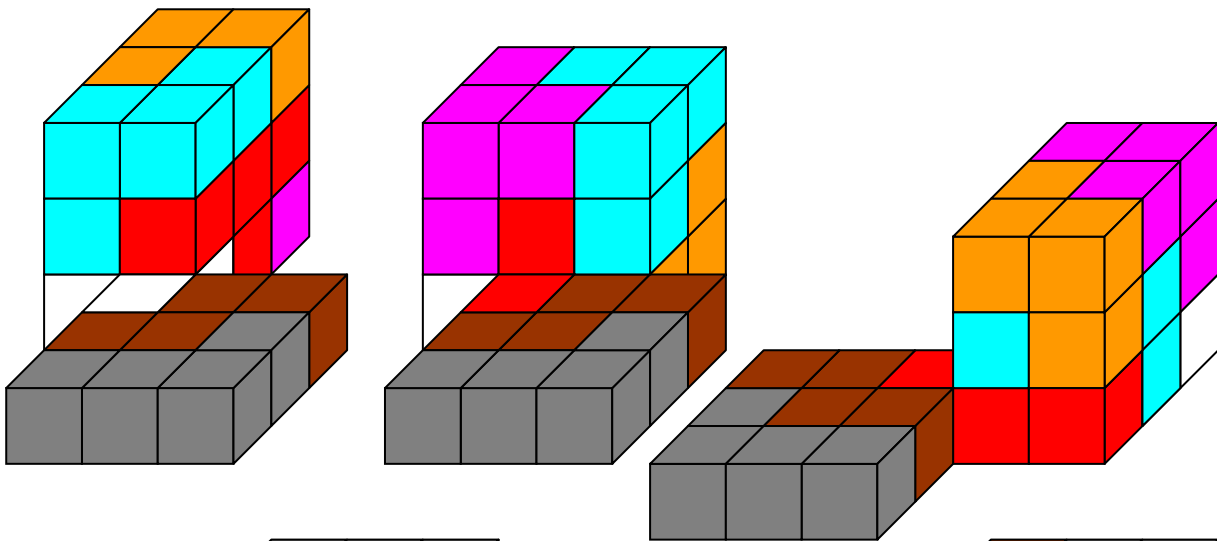
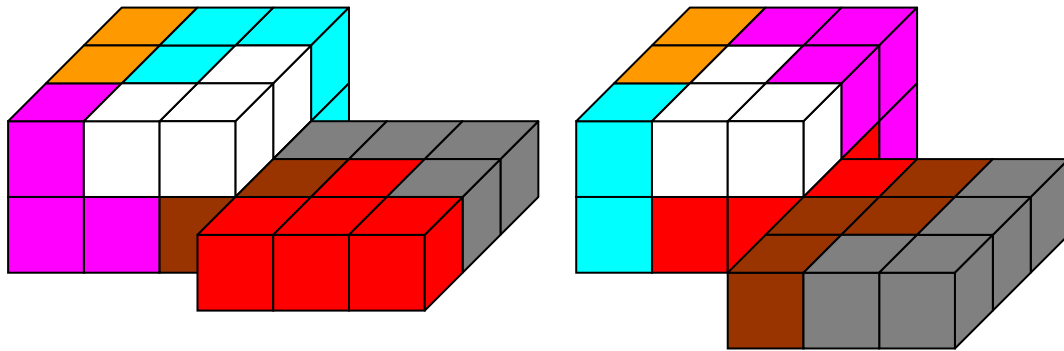
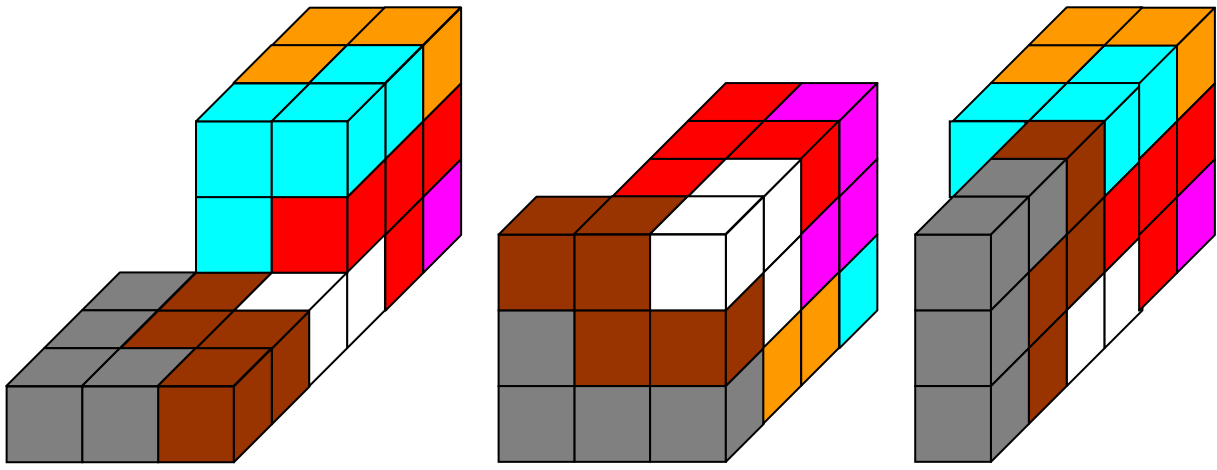


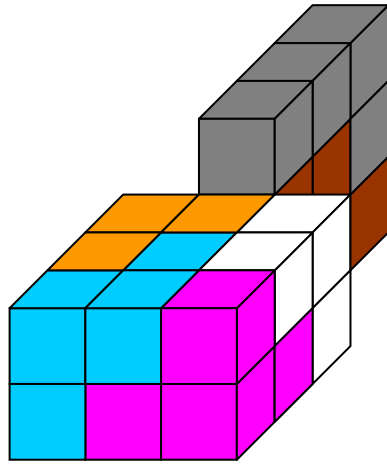
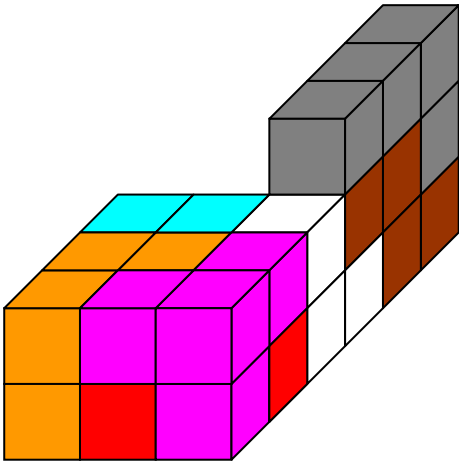
16 Pour 3x3x3 + 3x3x1



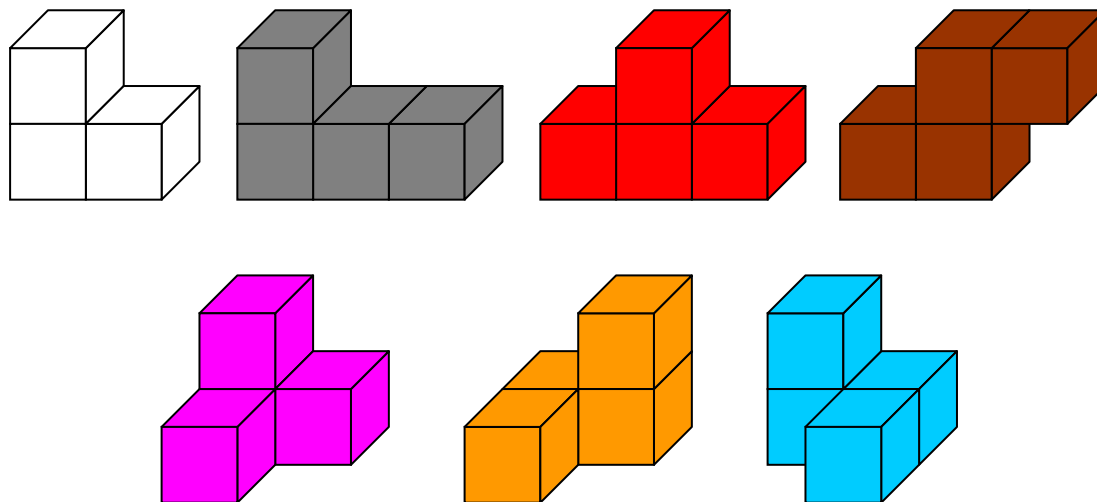
Voici quelques solides réalisés avec les sept pièces du cube Soma.



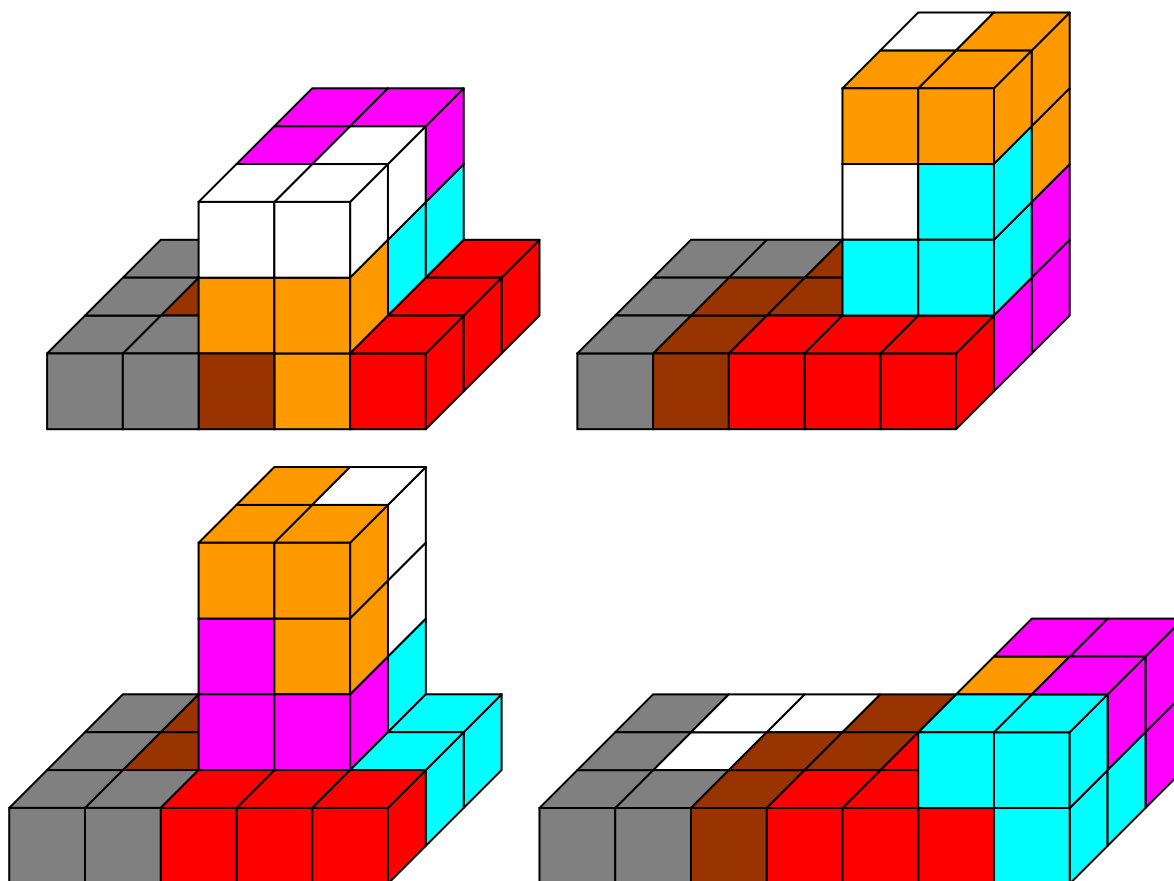


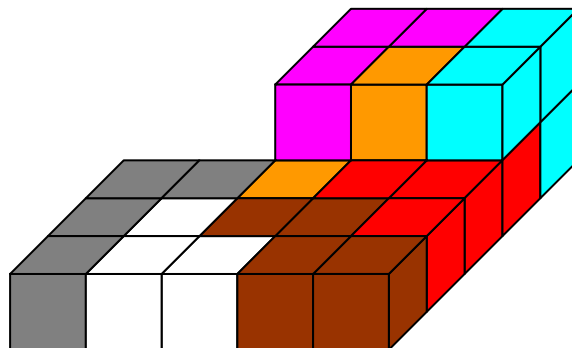
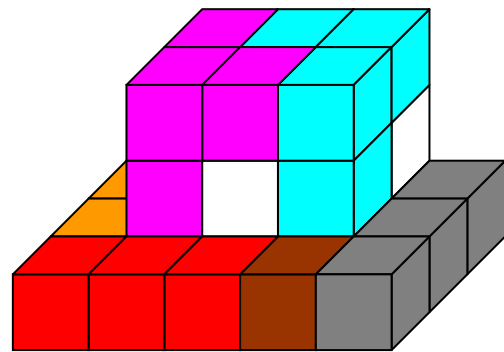
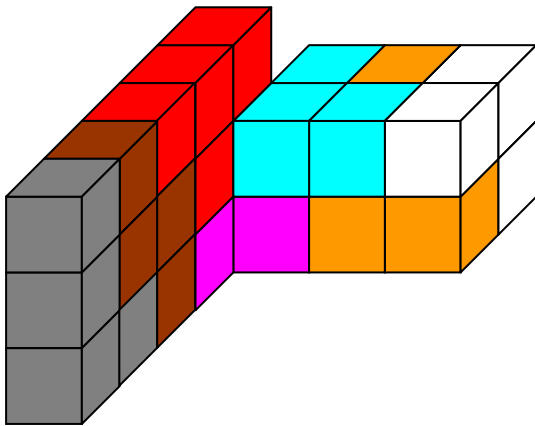
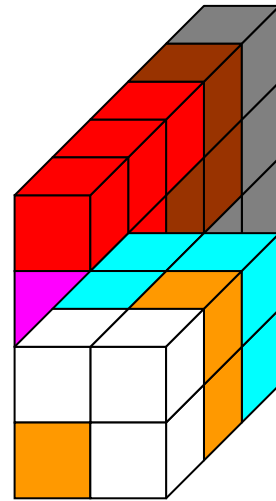
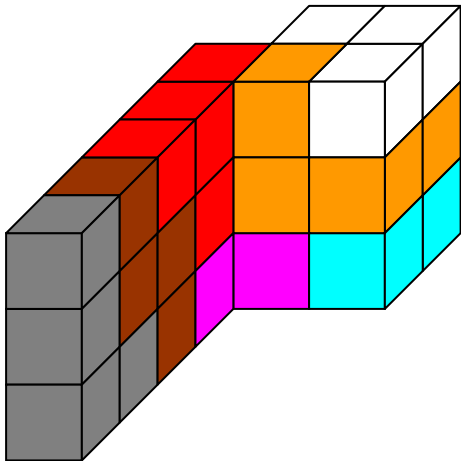
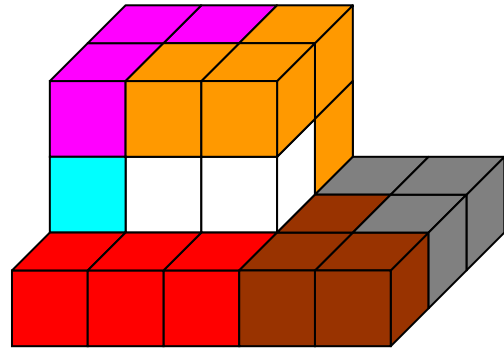
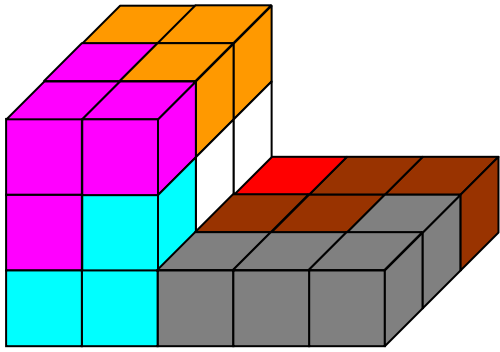


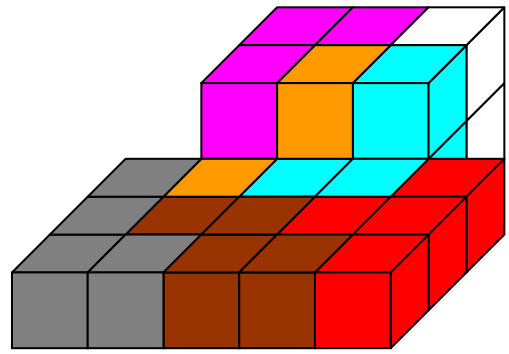
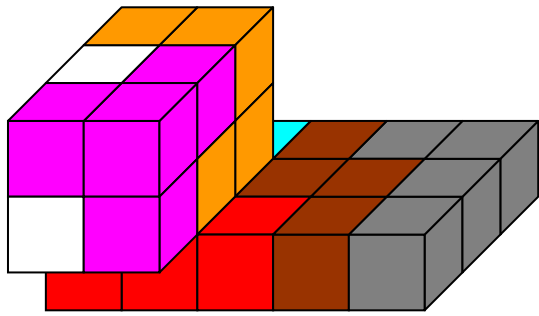
16 Pour $3 \times 5 \times 5 + 2 \times 2 \times 3$



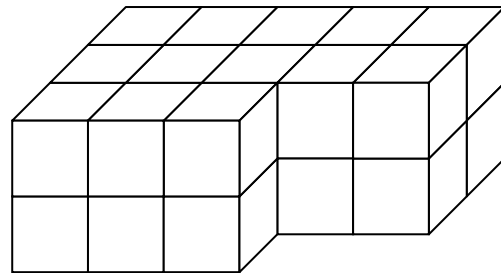
Voici quelques solides réalisés avec les sept pièces du cube Soma.







16 Un cube et deux parallélépipèdes accolés



Cet assemblage de cubes peut être considéré formé des parallélépipèdes $1 \times 2 \times 3$ et $2 \times 2 \times 5$ accolés.

Il peut aussi être considéré formé des parallélépipèdes $2 \times 3 \times 3$ et $2 \times 2 \times 2$ accolés. Cependant, « $1 \times 2 \times 3 + 2 \times 2 \times 5 = 26$ » et « $2 \times 3 \times 3 + 2 \times 2 \times 2 = 26$ ». Cet assemblage ne peut donc pas être réalisé avec les sept pièces du cube Soma, il faut assembler un cube supplémentaire à ce solide.

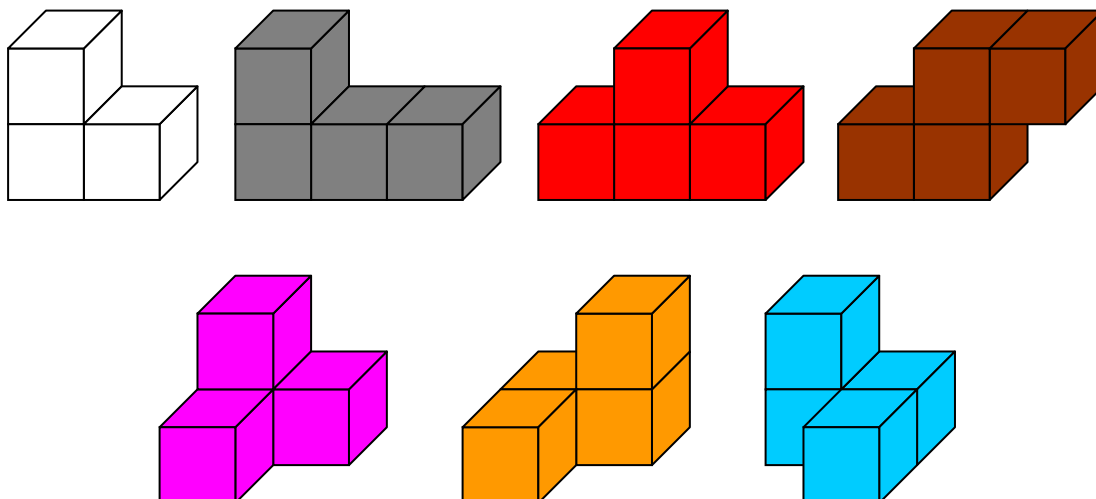
Quelques questions

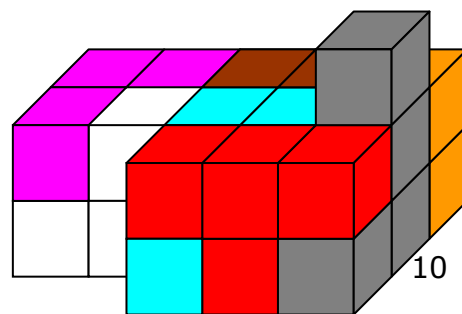
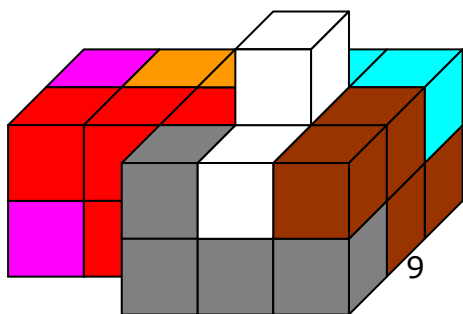
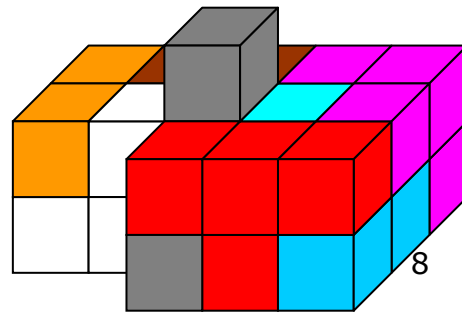
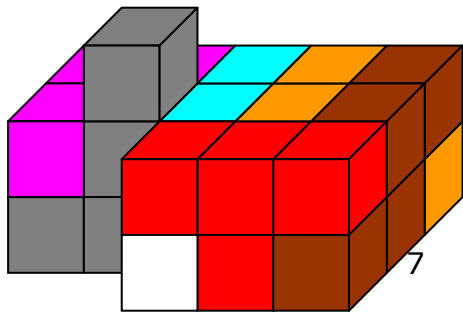
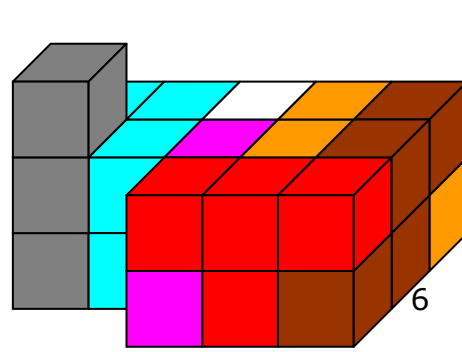
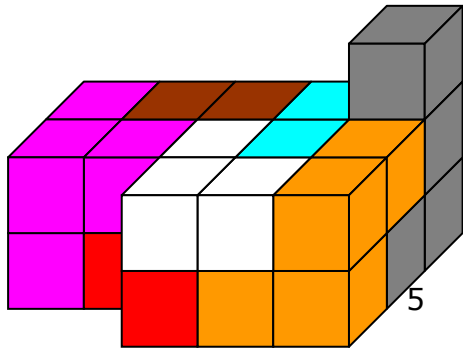
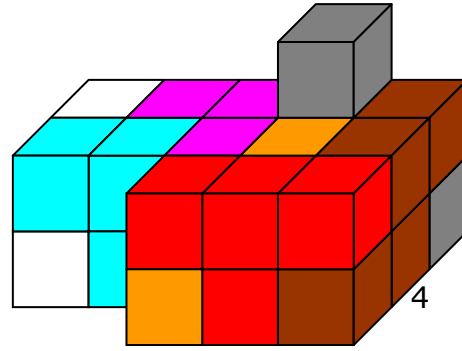
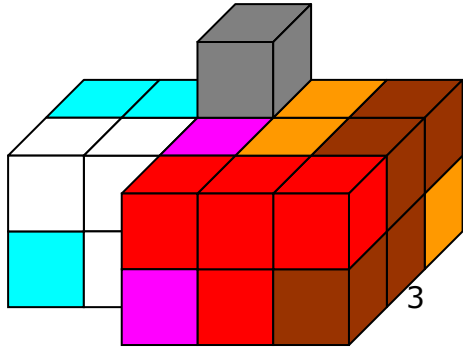
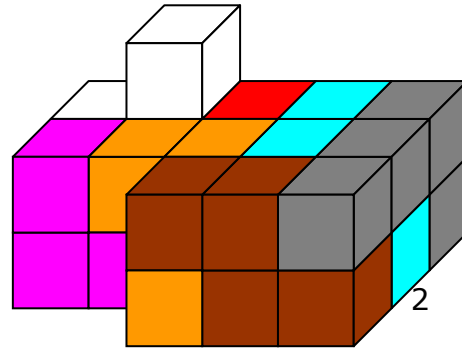
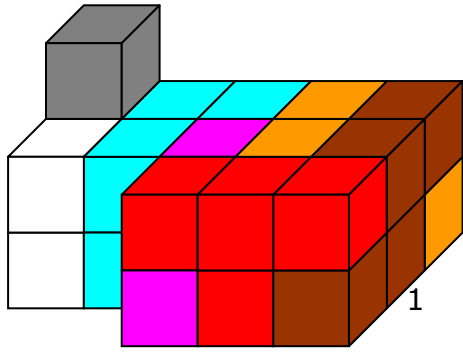
Combien de positions possibles pour ce cube supplémentaire ?

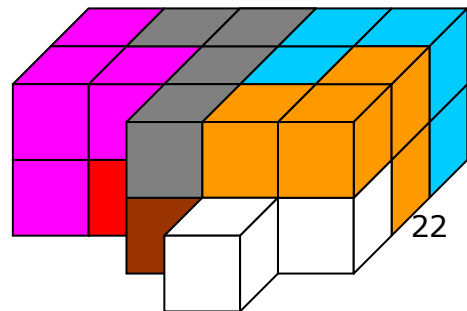
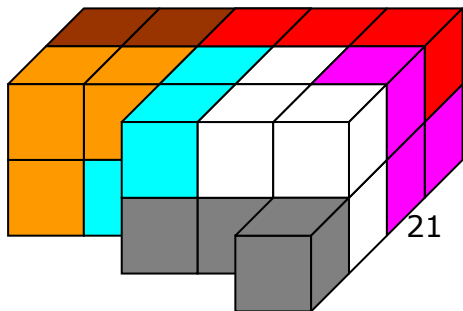
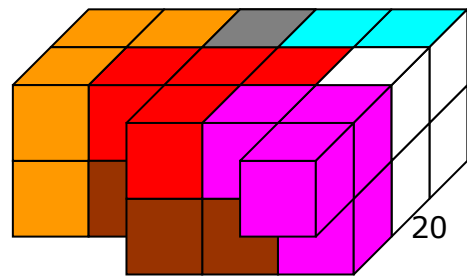
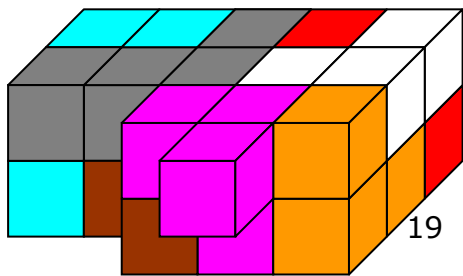
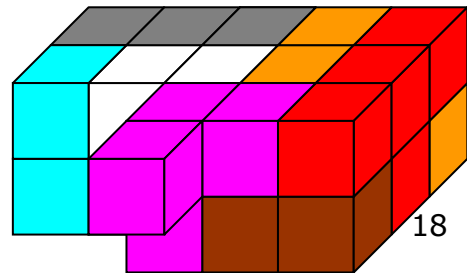
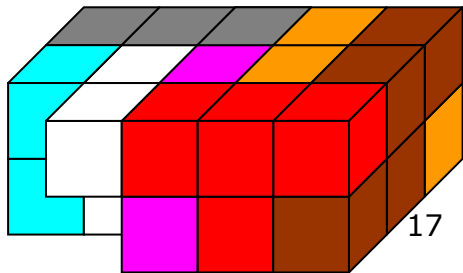
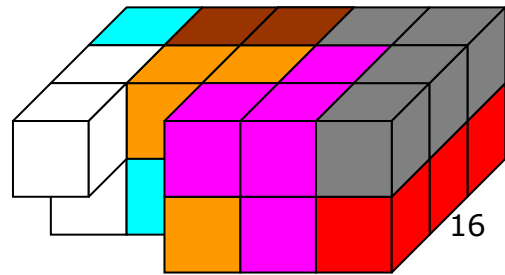
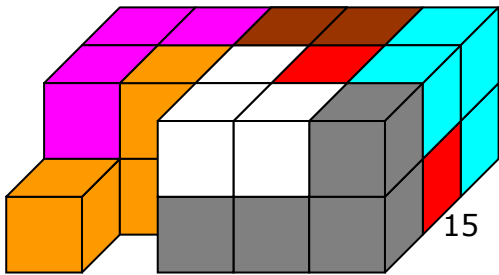
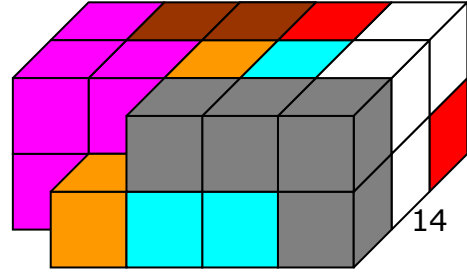
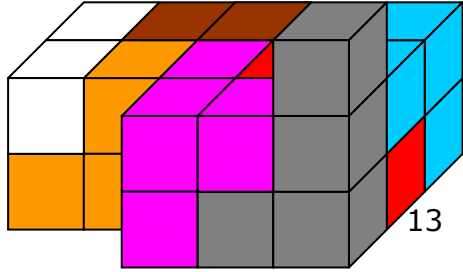
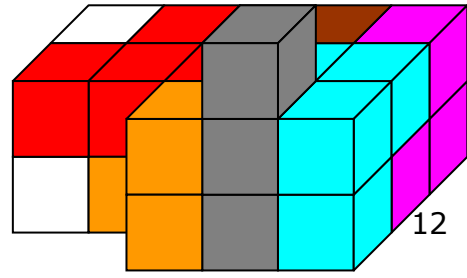
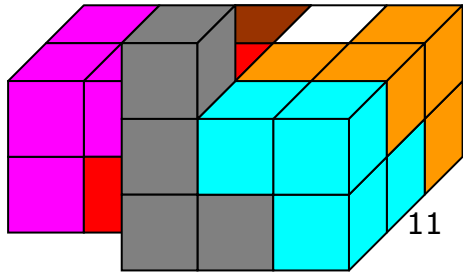
En ayant placé ce cube supplémentaire, chaque solide obtenu peut-il être construit à l'aide des sept pièces du cube Soma ?

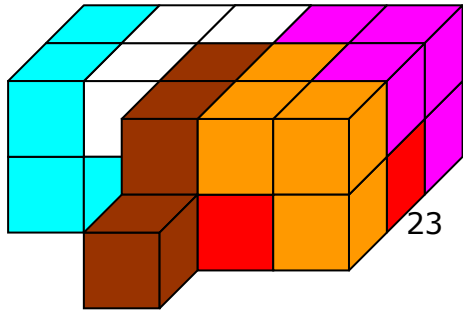
Joëlle Agamis, lorsqu'elle travaillait au collège de Stenay (Meuse), s'était intéressée à ces deux questions et ce qui suit est un aperçu de ses recherches.

Les pièces utilisées

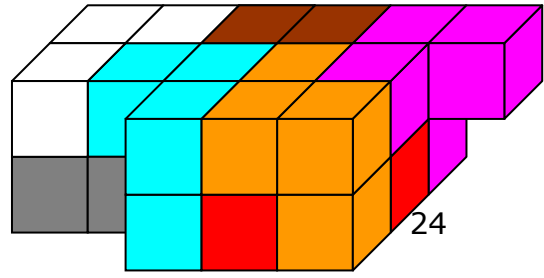




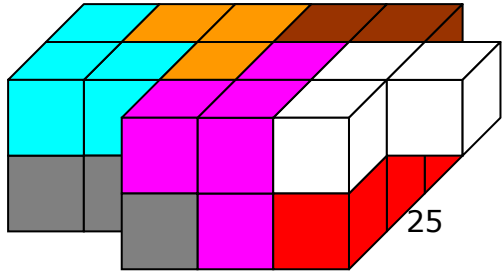




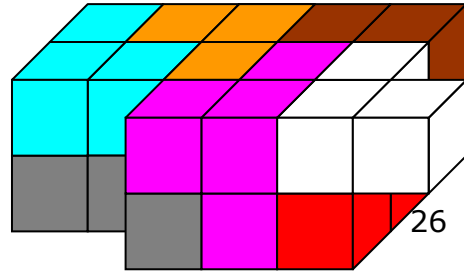
23



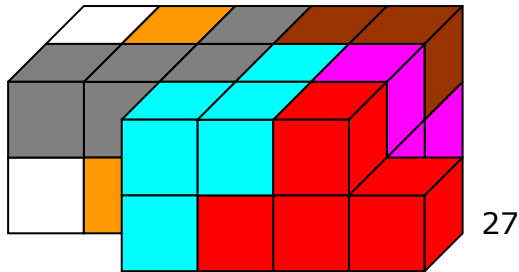
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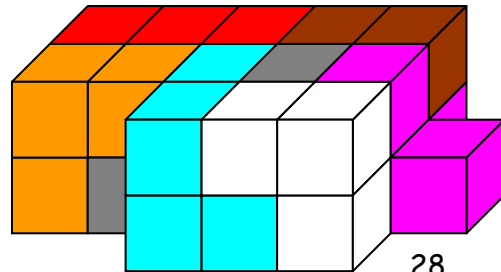
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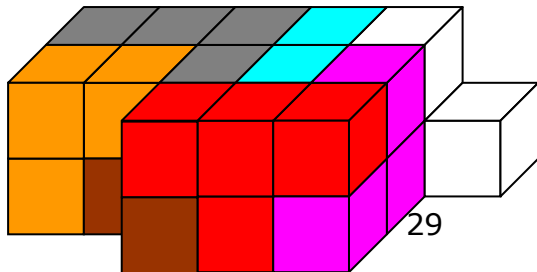
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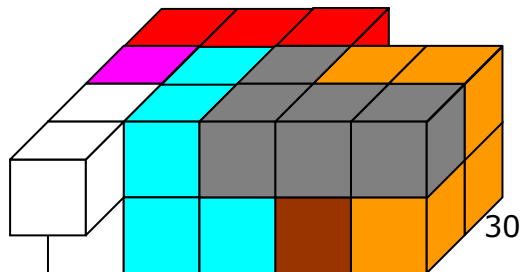
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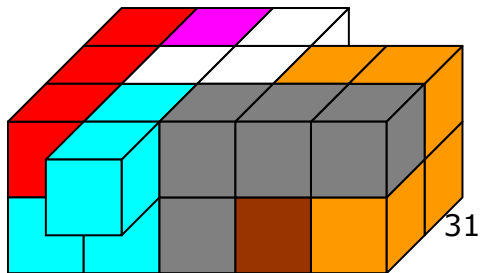
28



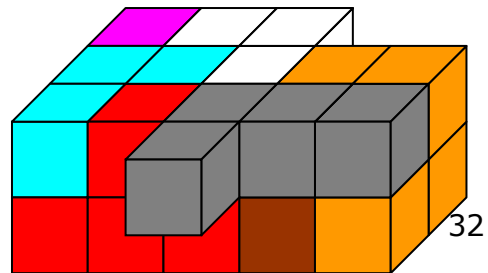
29



30



31



32

