

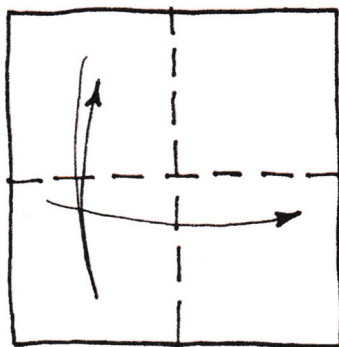
# Brillik Cubes

by Dave Brill © 2013-2015

The Brillik Cubes emerged in early 2013. Influenced by the Yoshimoto Cube, my own Waterbombic Dodecahedron (1986) and other flexing objects, the Brillik Cubes are experiments with hinged one-third cube divisions. 2, 3 and 4 cube combinations are possible, but I haven't yet been able to connect more than this...

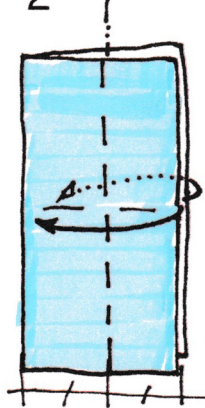


1



Start with a 15cm square.  
White side up.

2

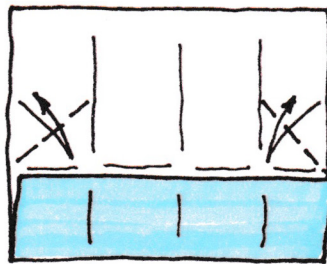


3

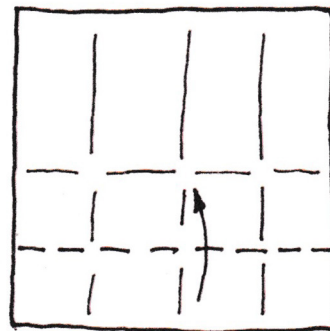


5

precrease 2  
short diagonals

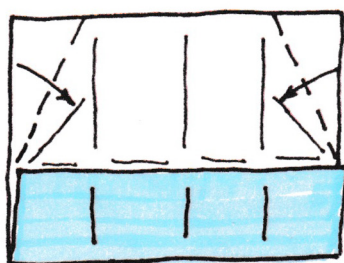


4

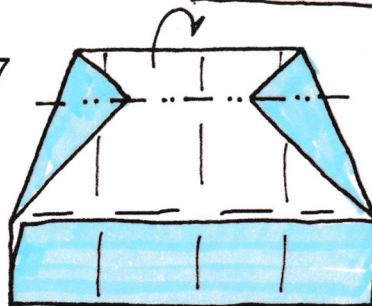


6

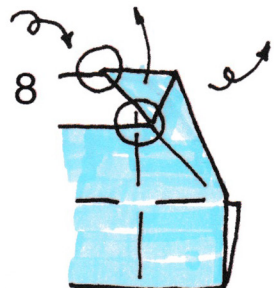
fold 2 edges to the short diagonals



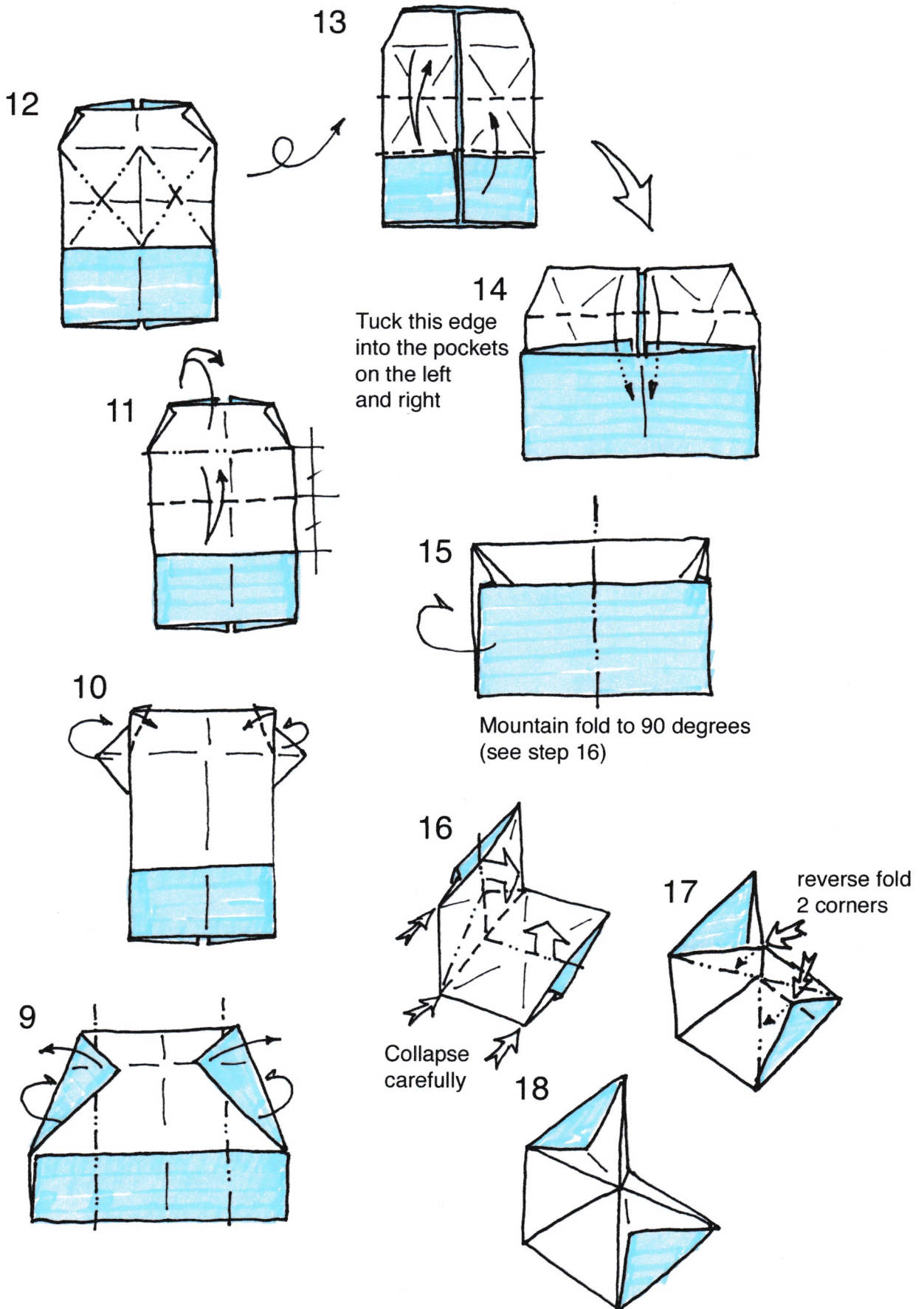
7

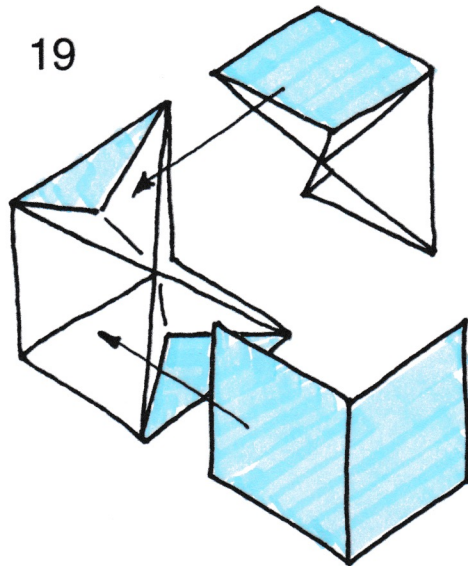


This mountain fold runs exactly  
through the two 90 degree corners

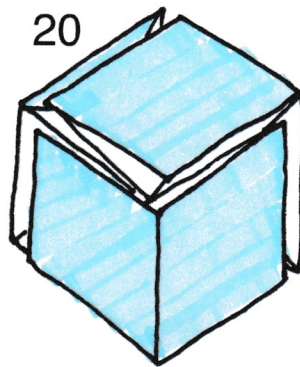


note carefully *three*  
reference points

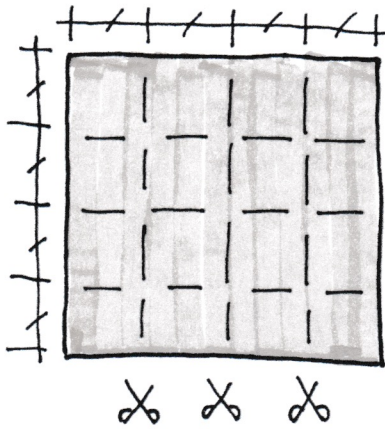




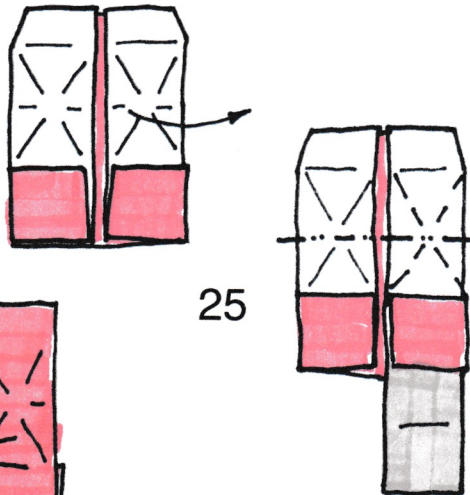
Three units placed together like this form a cube



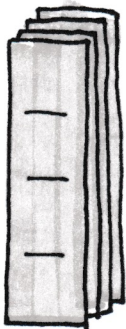
21 cut a 15cm square to make 4 hinges



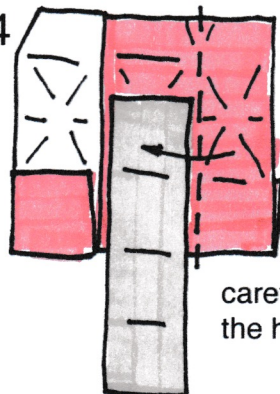
23 from step 15, open the right hand side



22



24

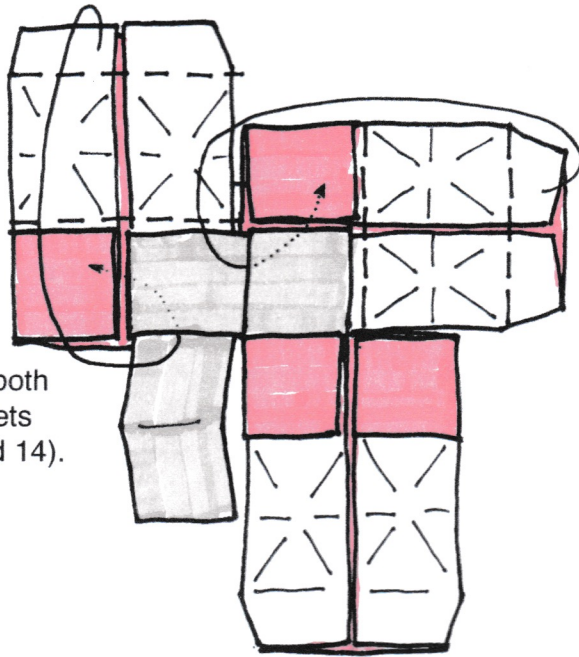


carefully align the hinge

25

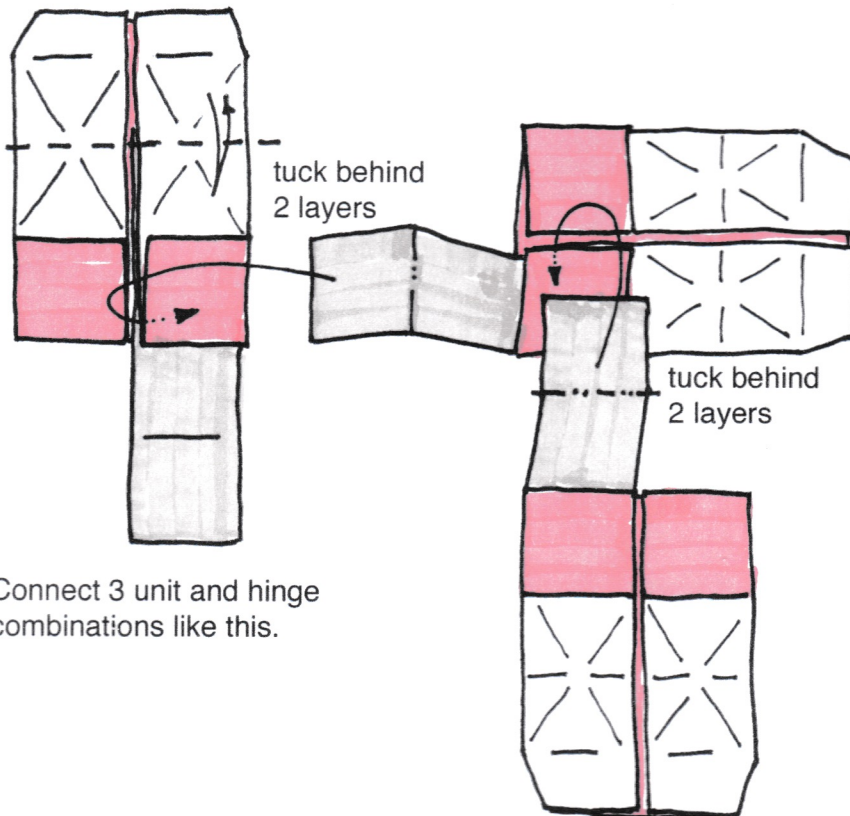


27



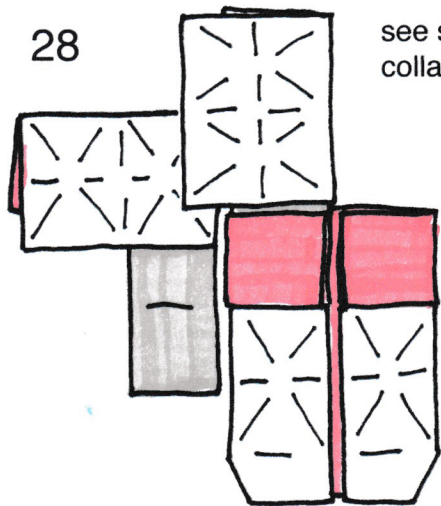
Ensure the tabs are inserted into both sides of the pockets (see steps 13 and 14).

26



Connect 3 unit and hinge combinations like this.

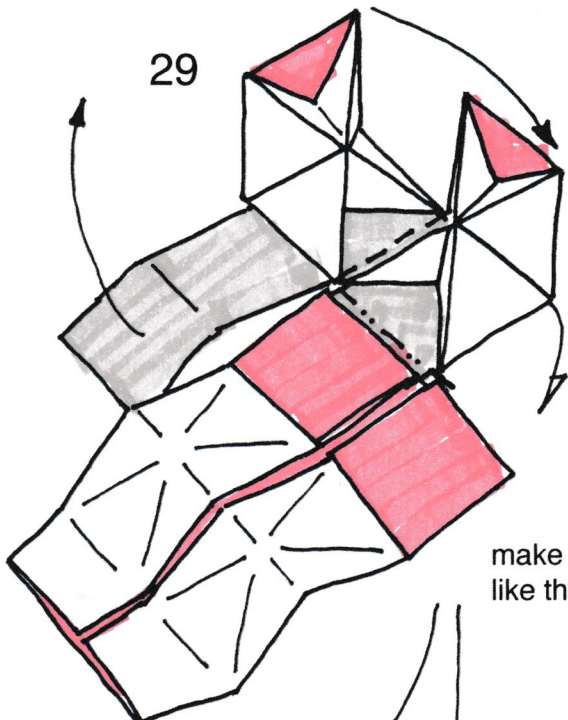
28



see steps 15-18  
collapse 2 units.

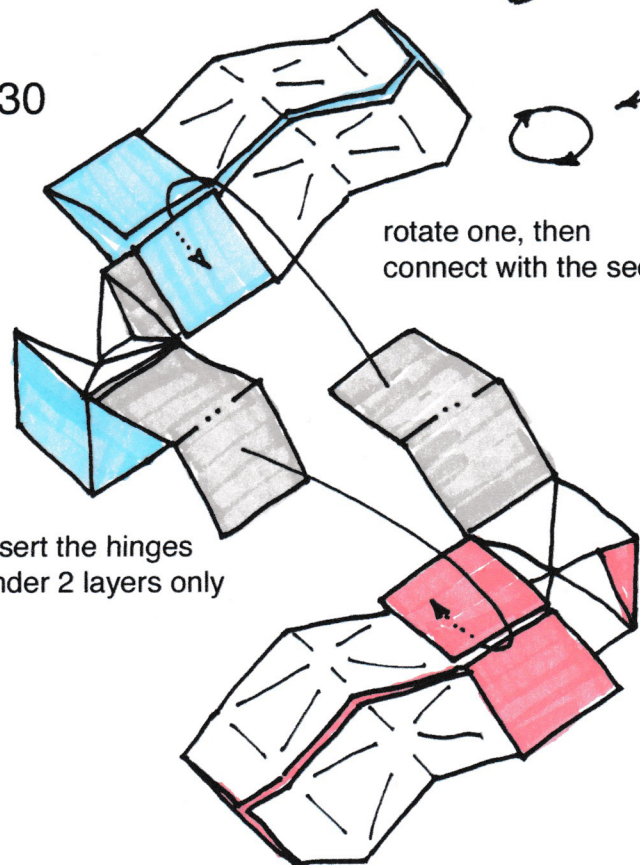
reposition these 2 units

29



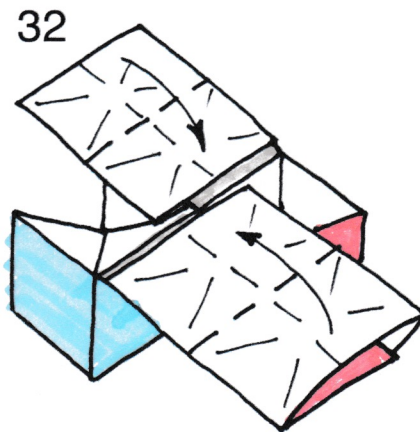
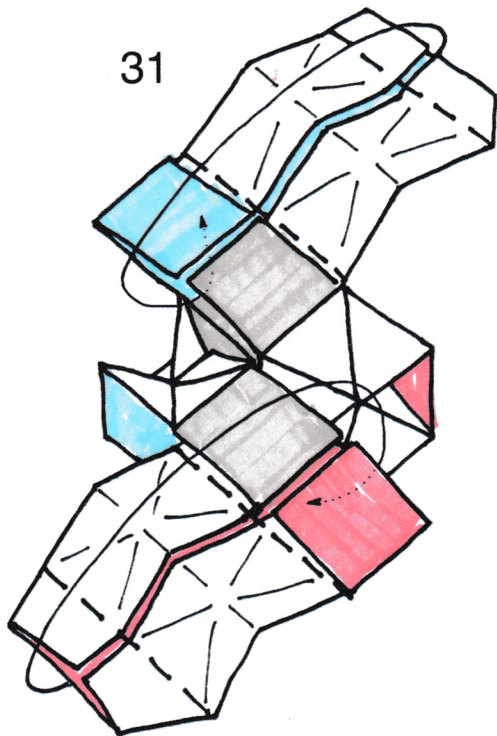
make 2  
like this

30

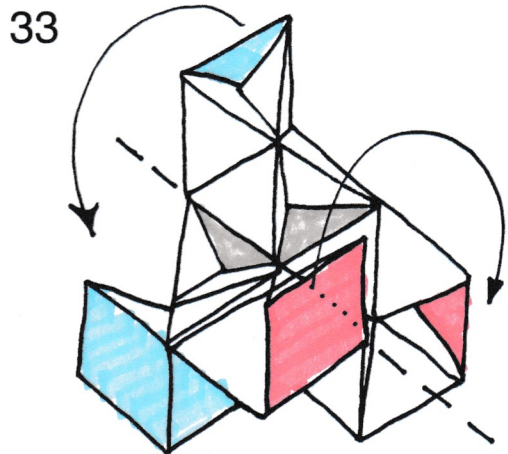
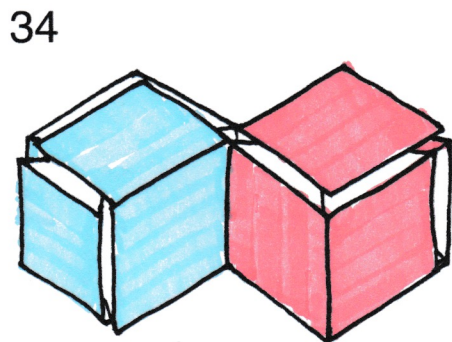


rotate one, then  
connect with the second

Insert the hinges  
under 2 layers only



Collapse 2 more units (steps 13-18)  
to complete a double cube combination.

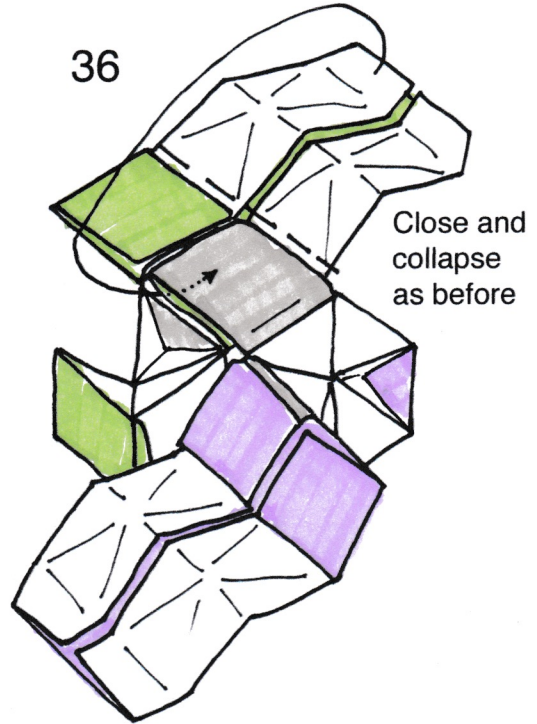


35



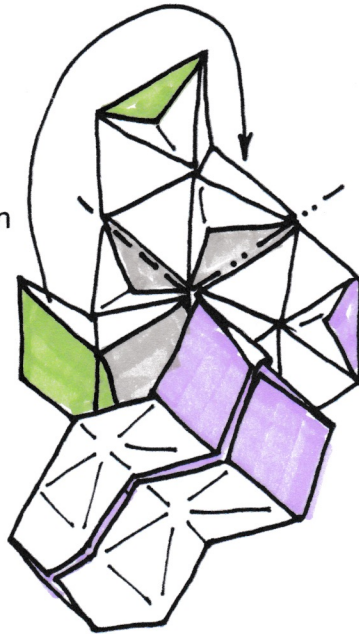
To make a 4 cube combination,  
start from step 30,  
only connecting *one* hinge.

36

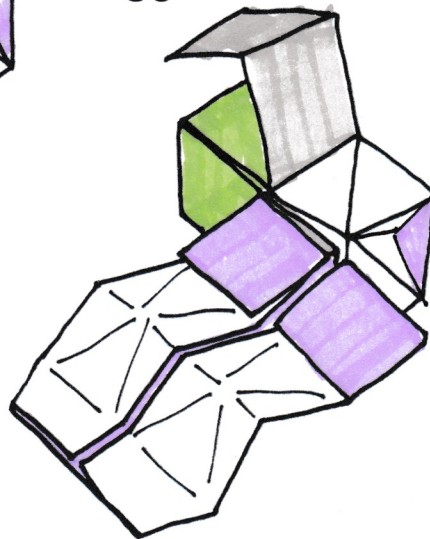


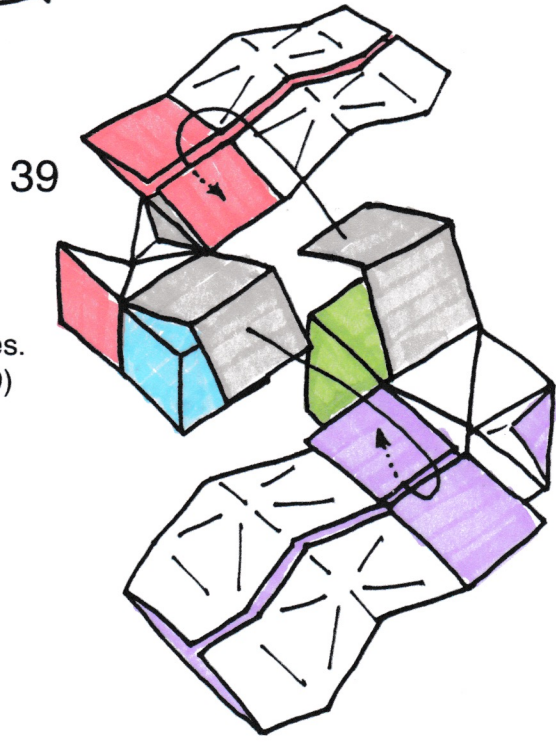
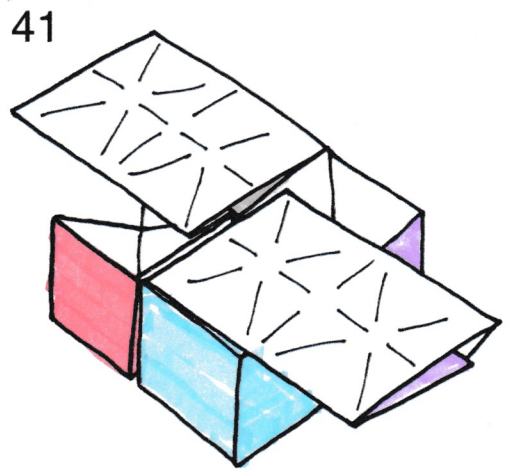
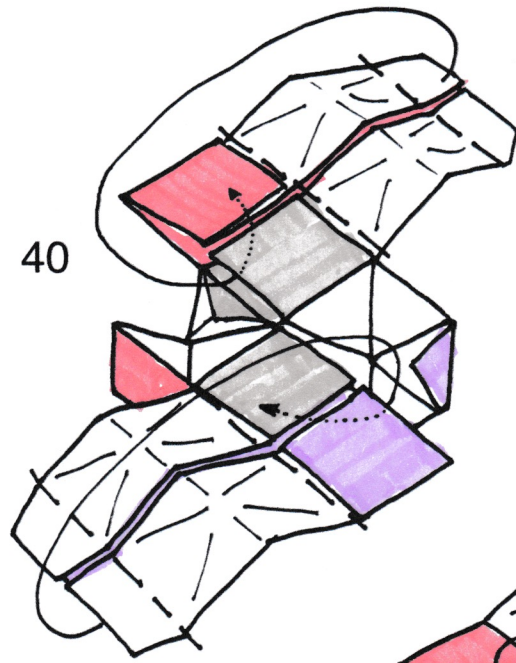
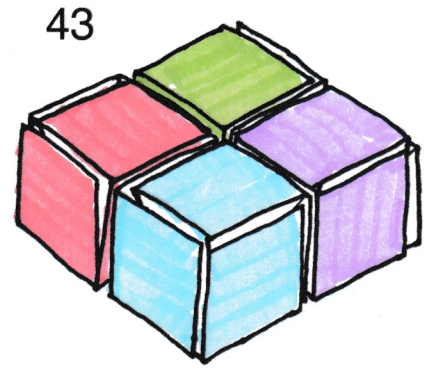
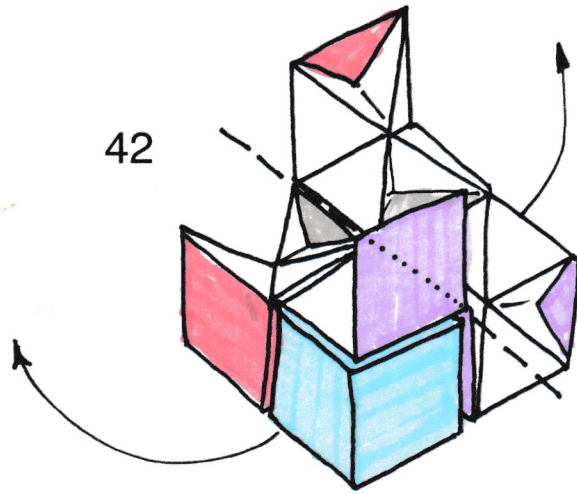
37

close one  
cube as shown



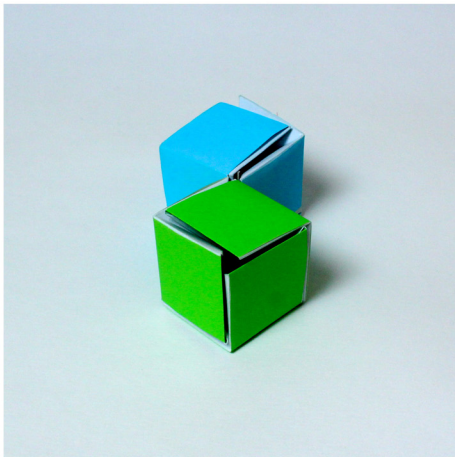
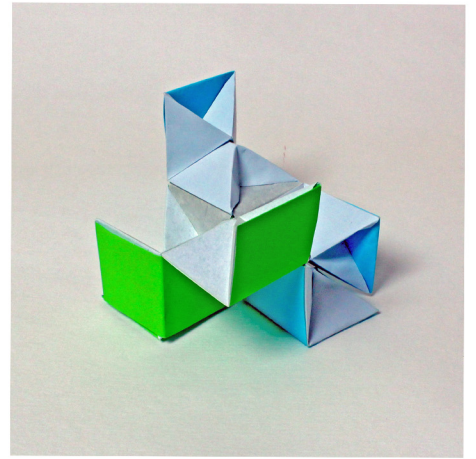
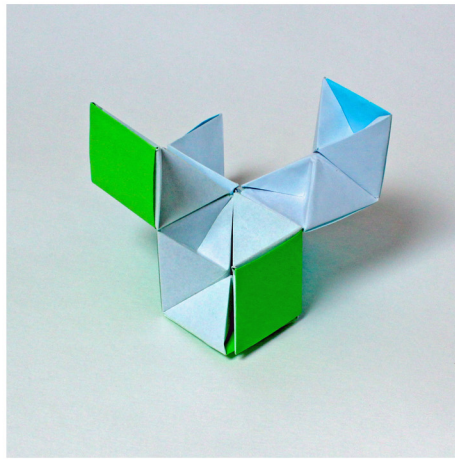
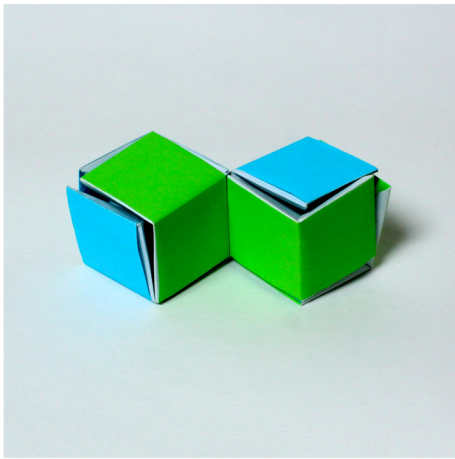
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This is how to connect the sections to make a 4 cube combination. Use previous procedures. (steps 13-18, and 26-29)





Brillik Cubes  
transformations

