



Dodecaeder

To help reconstruct Frabjous, a sculpture by George Hart

Mark each end of each piece as you add it to the sculpture.  
Each piece connects opposite vertices of adjacent pentagons.

E.g. Start with three numbers at a vertex. Label the three pieces of the sculpture connected at the vertex, for example, 2.3, 12.4, and 10.1. Connect the vertex.

Label the other end of each piece 9.5, 5.2, and 6.2 respectively as these are the opposite vertex on the pentagons which are adjacent to the opposite edge of each starting vertex. Mark the completed numbers on the dodecahedron as you go! Then pick another piece to attach to an incomplete vertex on the sculpture. Label, attach, repeat.

The other trick you need is to look at the pieces on any one face/flower. When connecting a new piece make sure the 'petals' on the same flower/face overlap always over the one clockwise from it. Look at a photo of a completed one for help.

As the sculpture becomes almost finished it's much easier to insert pieces upside down and then twist them about their long axis.