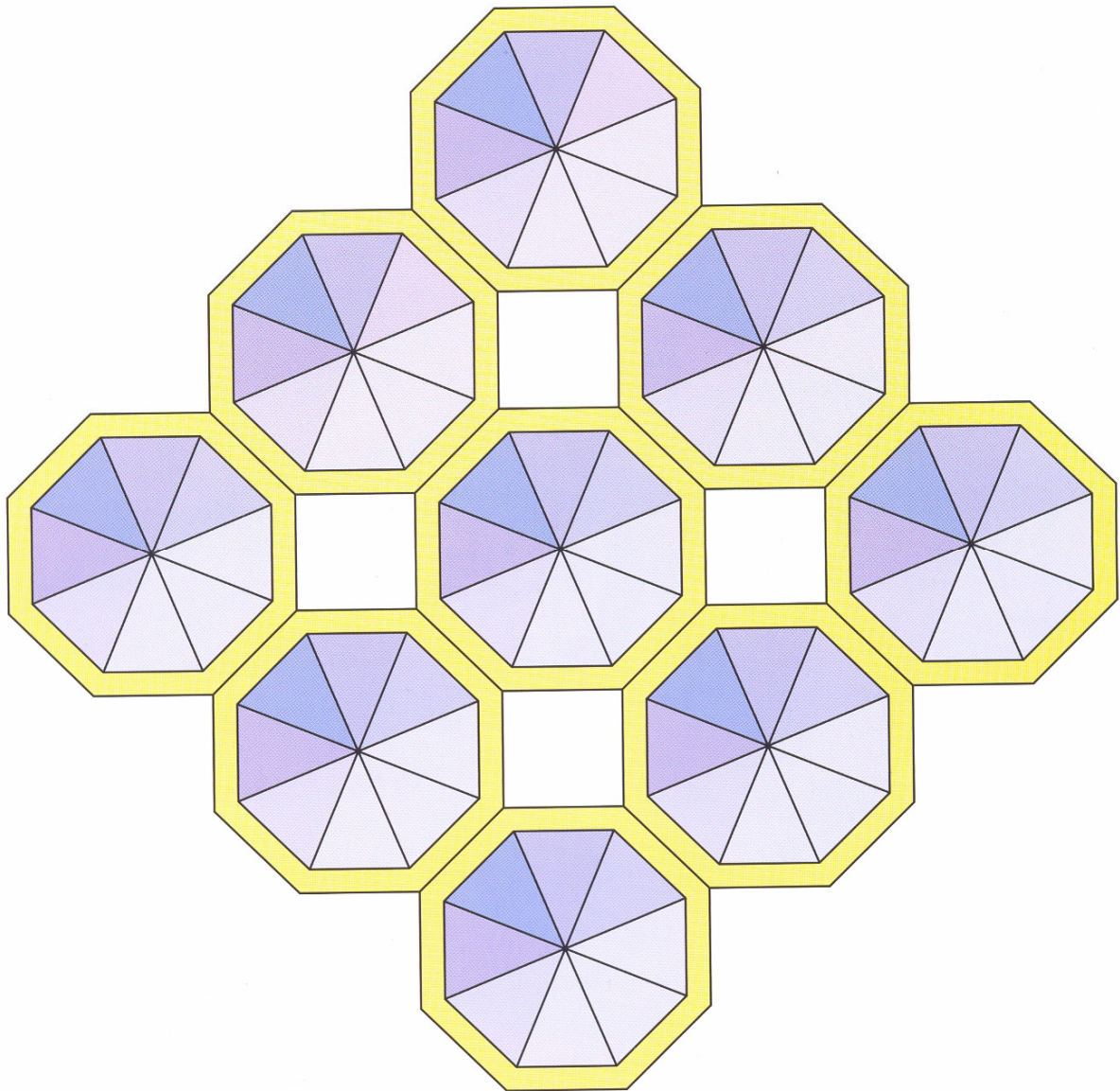


The Octopus handshake



1. Number the facets of each octagonal disk clockwise and in consecutive order from 1 through 8 in such a way that the facets that meet the next disk do so at an identical number.
2. Figure out what happens if the central disk is rotated clockwise by one facet.
3. Can you number the facets so that after the rotation each facet that meets another disk will do so at an identical number?