

MathFLIX CHALLENGE

Four Color Map Theorem

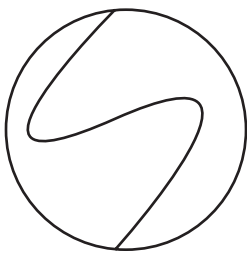
Mathematicians believe that all 2-dimensional maps can be colored with 4 colors - at most! Are they correct?

Complete the table on the right by coloring the maps below. The purpose of this activity is to use the fewest number of colors on any single map.


Each map is divided into territories. If a territory shares a border (more than just a point!) with another territory, then the two must be colored differently. Reuse colors when two territories do not share a border.

Map #	# of Territories	# of Colors
A	—	—
B	—	—
C	—	—
D	—	—
E	—	—
F	—	—
G	—	—
H	—	—
J	—	—

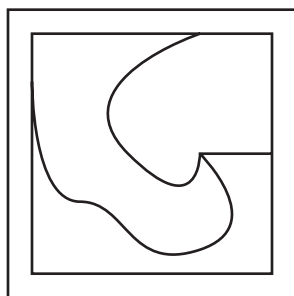
A



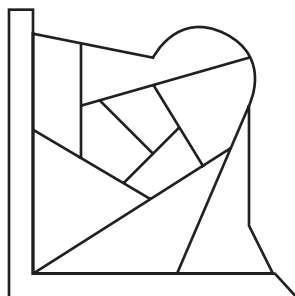
B



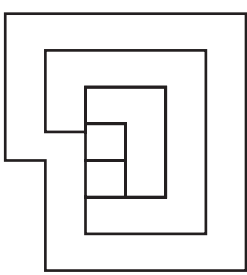
C



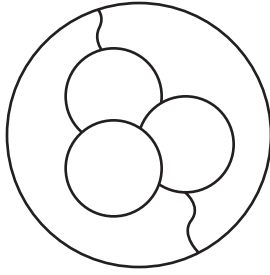
D



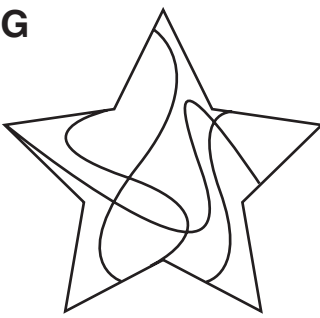
E



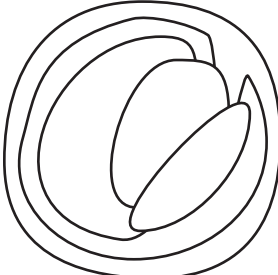
F




G



H



J



On the back of this sheet, try drawing a map that needs 5 colors - it seems like such an easy assignment...