

Map Coloring

Name: _____

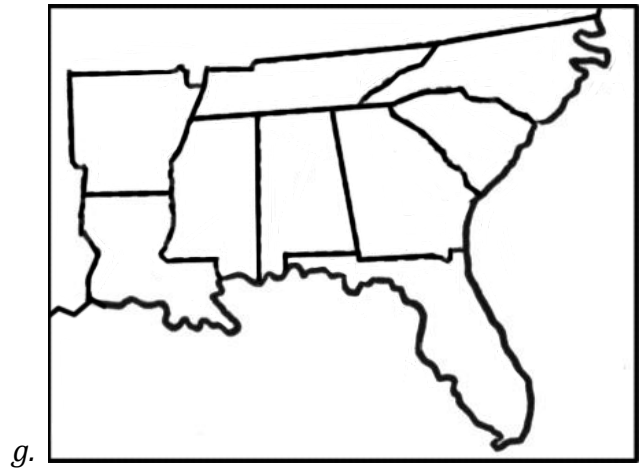
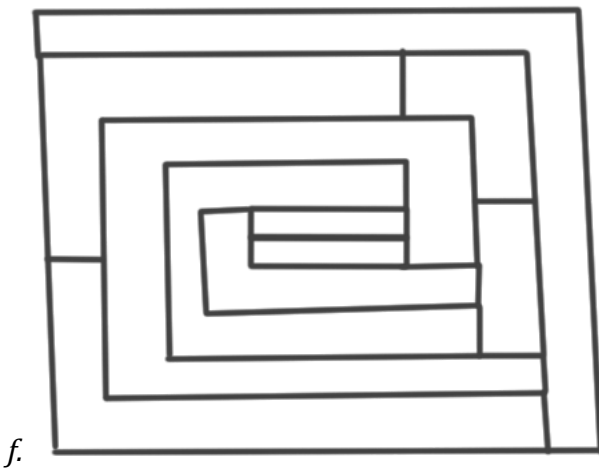
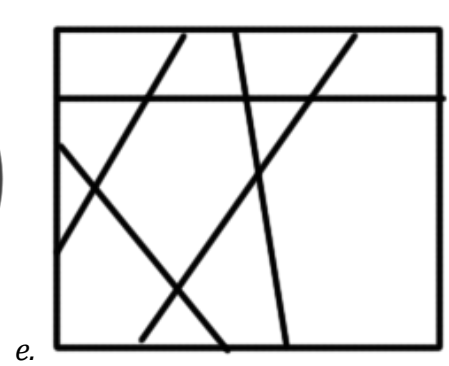
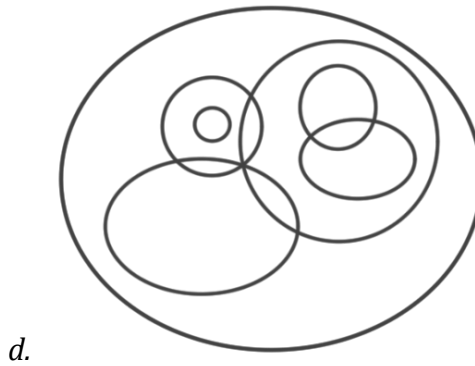
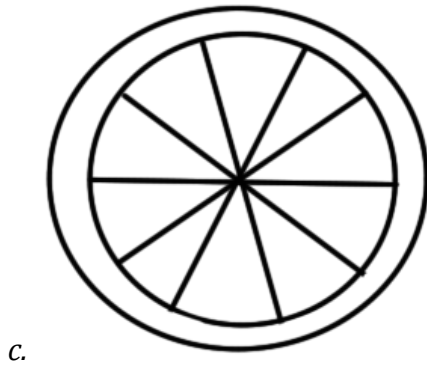
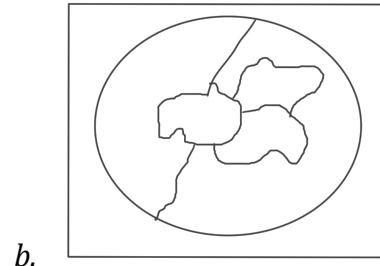
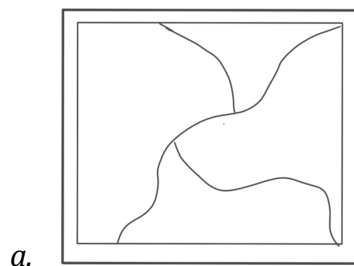
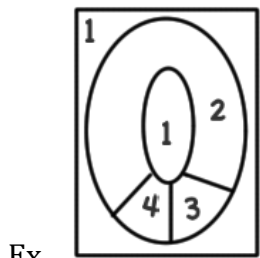
Time to Experiment:

Have you ever colored in a pattern and wondered what is the smallest number of different colors needed so that no two sections that share a common edge are the same color?
(Having a common corner is OK, just not an edge.)

Steps:

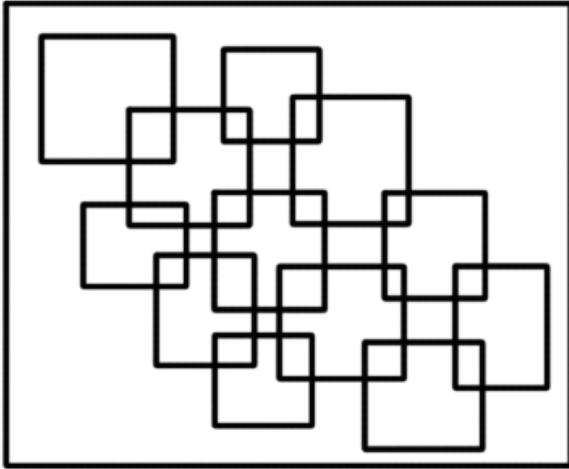
1. Color some of the patterns provided (do a minimum of 3).
2. Draw your own pattern.
3. Make a conjecture of how many colors you need to color any pattern. _____

Suggestion: Before coloring a pattern, plan how you will do it by penciling in the names of your chosen colors in each region

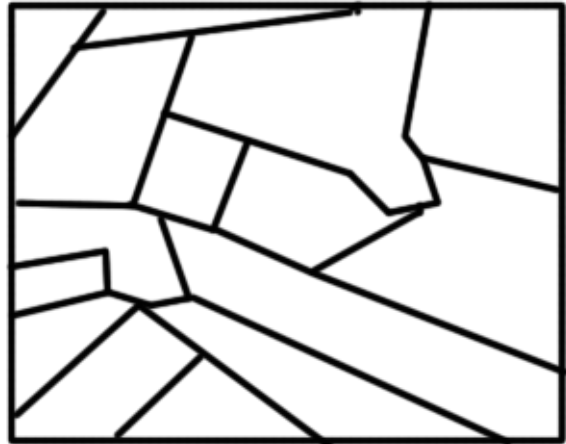


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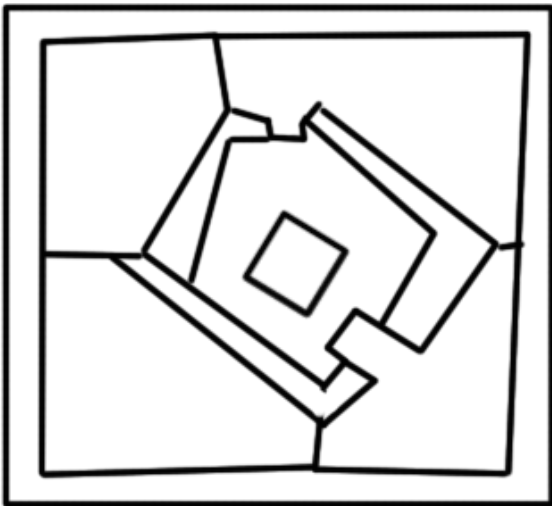
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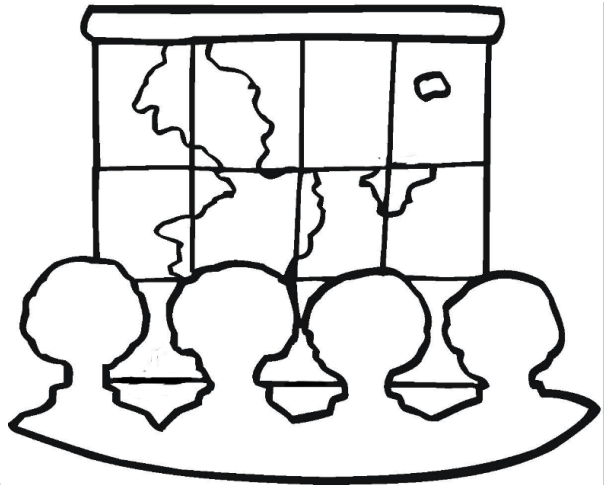
h.



i.



j.



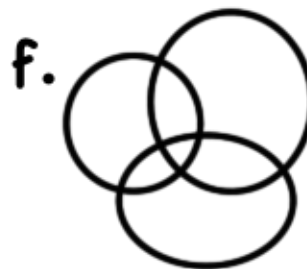
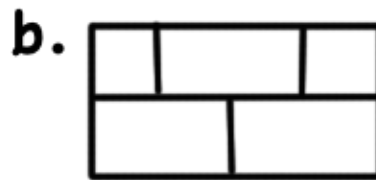
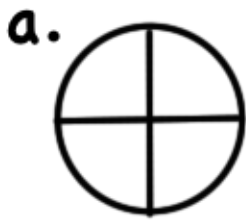
k.



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For each map indicate how you would color the map using the fewest colors.



Letter	a	b	c	d	e	f
Number of colors needed						