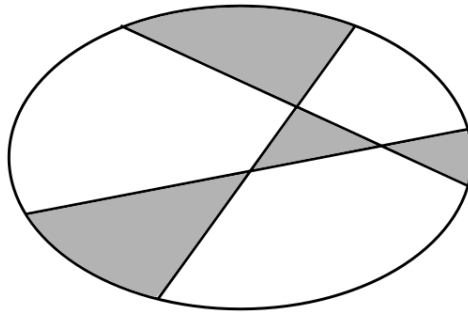


# Puzzle of the Week

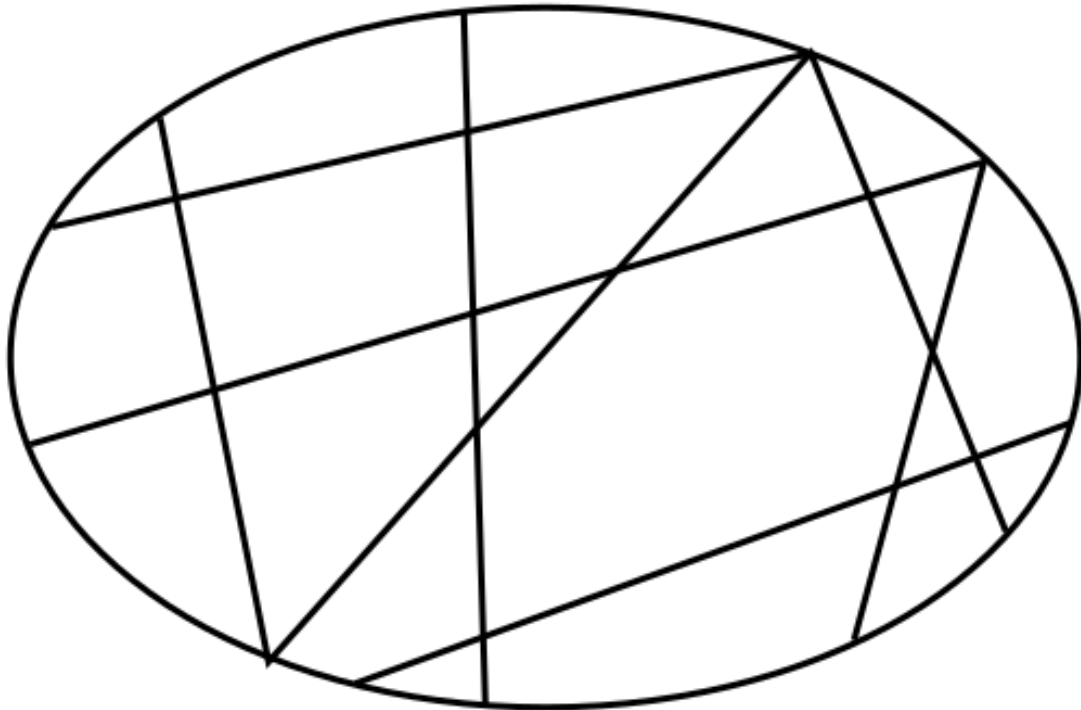
## *Map Coloring with 2 Colors – 1*

---

Map makers color maps so regions sharing a border have different colors. Here is a map where the regions are created by drawing straight lines across the map. Notice how it has been colored using just two colors.



**THE CHALLENGE:** Color this more complicated map using just two colors.



# Puzzle of the Week

## *Map Coloring with 2 Colors – 1 – Notes*

---

**THE CHALLENGE:** Here is a fun demonstration for coloring maps such as the two on the first page, where the regions are made by a collection of lines. It's probably best to do this on a whiteboard or some other easily erasable surface.

Start with an empty oval. Now draw a line across it. Lightly darken one side of the line.

Next, draw another line across that. Flip the color used for every region on one side of the line - if it was white, make it dark, and if it was dark, make it light.

Keep adding lines one at a time and flipping all the colors on one side of the line. Do this for as long as your patience holds out. In the end you will have a map that is colored using just two colors!

