

IUPUI

MATH CLUB TEASER #21

April 17, 2009
(due April 24, 2009)

What is the least number of colors needed to color all Indiana counties in such a way that no two contiguous counties have the same color? (Counties that touch only in a corner are not contiguous)

For a solution to be correct, you have to give a coloring, AND show that there is no solution with fewer colors.



The IUPUI Math Club invites everybody to submit solutions to its weekly recreational mathematics problem. Interested individuals and teams of up to four participants must submit a cover sheet (available at jagmath.usg.iupui.edu) together with their written solution. At the end of the semester, every IUPUI student that sent a correct solution will receive a certificate of merit. Prizes will be distributed among the IUPUI undergraduate teams that submit the most correct solutions.

Solutions are due one week after each problem is posted, and should be faxed to (317) 274-3460, dropped off in person at LD 270, or sent by campus or U.S. mail to:

Math Club Teaser
Dept. of Mathematical Sciences
IUPUI, LD-270
402 N. Blackford Street
Indianapolis, IN 46202