

I U P U I
MATH CLUB TEASER #40

March 26, 2010
(due April 2, 2010)

Three blind mice, Alice, Bob, and Carol, compete in a series of mazes in the Lobachevsky Laboratory. For finishing first, a mouse gets x bits of cheese; for finishing second, y bits; for finishing third, z bits ($x > y > z$ are all whole numbers).

There are no ties, and so far, Alice has accumulated 20 bits of cheese, Bob has 10 bits, and Carol has 9. Alice came second in maze #1.

Who came second in maze #2? Answer quickly and you can win a ticket to see how they run.

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