

I U P U I
MATH CLUB TEASER #43

April 30, 2010
(due May 7, 2010)

The abettor Professor Zerep has to make a secret delivery of marshmallows to the kids at Camp Cauchy. The camp is 840 miles away through the desert, and the Professor's only means of transportation is an old jeep with a full 10 gallon tank. There is extra fuel in the form of two 45 gallon barrels, but the marshmallows leave space for only one tank in the jeep. Also, it is not possible to transfer fuel between the barrels.

Given that the jeep gets 12 miles to the gallon, can the Professor deliver the marshmallows?

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
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