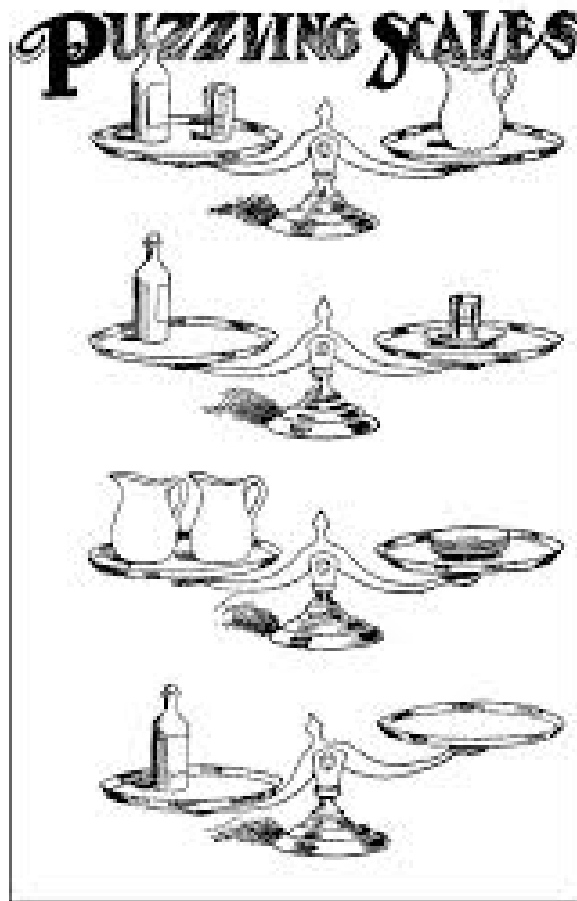

Problem of the Week

Number Five

October 7, 2013

The Tug O' War problem seemed to go over well, so how about a more challenging one along the same lines? Good luck!



How many glasses will balance with the bottle?

Since the resolution on that diagram leaves something to be desired, here is what is shown by the first three scales:

1. One glass plus one bottle balances one pitcher.
2. One bottle balances one glass plus one plate.
3. Two pitchers balances three plates.

The question at the bottom reads: How many glasses will balance with the bottle?

Solutions are due to Jason Rosenhouse by 5:00 on Friday, October 11. Please write your solution clearly somewhere on an official POTW problem sheet. Be sure to explain your answer! Place your name, e-mail address, and the section numbers and professors of any mathe courses you are taking, in the upper right corner of the page. One weekly winner will receive a five-dollar gift card from Starbucks. Winners will be drawn randomly from among the correct answers. Problems are available at the bulletin board outside Room 119, and also at the website:

<http://educ.jmu.edu/~rosenhjd/POTW/Fall13/homepage.html>