

Rockhurst University Mathematics Problem of the Month

Congratulations to Sean Willis and Melissa Ruhlman, winners of November's contest. Each wins a prize from the POM puzzle collection. Honorary mention goes to Ben Skoch, Kristina Carpenter, and Peter Simone. The contest is open to any currently enrolled Rockhurst student. The winner will be chosen according to who has the best solution (not just answer) to the problem. Ties will be resolved by considering the order in which the solutions were received.

Solutions should be submitted to Keith Brandt (Richardson 120) by the end of the month. Winners receive wonderful prizes, so give these problems some thought!

Problems for January 2007:

1. A bike shop sells bicycles and tricycles. In reviewing the inventory, the owner counts 153 wheels and 136 pedals. How many bicycles and tricycles are in stock?
2. A circle is inscribed inside an equilateral triangle. If the circle has area of 1, what is the area of the triangle?