

Rockhurst University Mathematics Problem of the Month

Congratulations to Matt Detrick and Peter Huhnerhoch, winners of December's contest. Each wins a movie pass donated by AMC Theaters. Honorable mention goes to Michael Kheop, Lee Haworth, Peter Simone, and Prof. Colombo. 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 2005:

1. Given any right triangle with integer sides, show that the product of the three sides is a multiple of 60.
2. Sam owns eight ties. He will be going on a business trip soon and wants to take at least two ties with him. In how many ways can he choose *at least* two ties to take on his trip?