

## Rockhurst University Mathematics Problem of the Month

Congratulations to Matt Detrick and Doyle Witt, winners of October's contest. Each wins a prize from the POM puzzle collection. Honorary mention goes to Sean Willis 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 November 2006:

1. How many different isomers of octane  $C_8H_{18}$  are there?
2. A number exceeds twice its square root by three. Find the number.