## Problem of the Week \#10

 (Fall 2016)In my new favorite game, I roll $n$ fair 6 -sided dice, and I win if every number from 1 to 6 comes up at least once. What is the smallest value of $n$ for which I'm more likely to win than to lose?
[Please fully explain your answer.]
Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, November 23, 2016.

Every week, the best solution submitted earns a $\$ 10$ Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck!
You can always see the Problem of the Week (and complete rules) online at:

