

Week #7 Winter 2010

Eat all that that you can at the Motor City Casino Buffet before even attempting to solve the WSU Math Department's

PROBLEM
of the week

SLOT MACHINES FOR DUMMIES



Tired of studying for their upcoming Calculus II exam, Spartacus a.k.a. “Joe the Plumber”, OLOF and “No Nickname” Rachel decided to relax by playing a new type of slot machine at the Motor City Casino. To play, one first feeds \$1 into the slot causing the machine to display a random whole number between 1 and 1,000,000,000. The player then pulls a lever causing the machine to display a second random whole number between 1 and 1,000,000,000. The player wins \$1,000,000 if the two numbers are different, none of their digits is a zero, and their product is exactly 1,000,000,000; otherwise the player loses. After an expensive hour of losing, Spartacus, OLOF and Rachel decided that they would be better off studying Calculus. What are the two winning numbers?

WSU undergraduates may submit solutions to the Mathematics Department office, 1150 FAB, by noon March 23. Include your name, ID number, and whether you have completed Math 2030 (or higher). Sorry, no fax or e-mail entries. For information, call 577-2479.