

# Cal Poly Department of Mathematics

## Puzzle of the Week

September 22-28, 2011

Find a multiple of 2011 which has the (decimal) form  $\underbrace{111 \dots 1}_k$ , or show no such multiple exists.

*Solutions should be submitted to Morgan Sherman:*

*Dept. of Mathematics, Cal Poly*

*Email: sherman1 -AT- calpoly.edu*

*Office: bldg 25 room 310*

*before next Friday. Those with correct and complete solutions will have their names listed on the puzzle's web site (see below) as well as in next week's email announcement. Anybody is welcome to make a submission.*

<http://www.calpoly.edu/~sherman1/puzzleoftheweek>