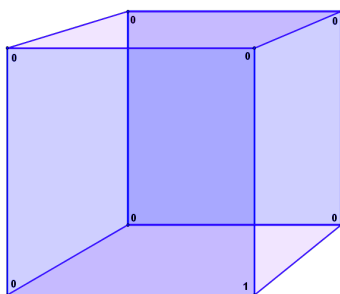


Math Challenge Problem

for late April, 2014

Labeled Cube



Suppose you take a cube and label one of its vertices with a 1, and all the other vertices with a 0. You may now change the numbers on the vertices by picking any edge of the cube and adding one to the labels of its two endpoints.

The Challenge: Will there every be a configuration where all the labels are even? Will there every be a configuration where all the labels are divisible by 3?

Submit solutions to Ross 2239G or to oscar.levin@unco.edu by **Friday, May 2**.

WIN PRIZES!

A winner will be randomly selected from all correct answers received for each challenge problem to receive a fun math prize of his or her choice.

Prizes include funky Rubik's style cubes, math puzzle books, math games, even a math coloring book. So submit your answer TODAY!