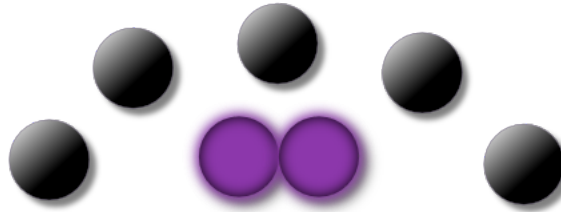


Math Challenge Problem

for late November, 2013

Seven Orbs



You enter a magical cave to find seven opaque orbs. A wizard tells you that each orb is colored on the inside, and that four or more of the orbs have the same color. Also, when two orbs of the same color are brought into contact with each other, they will glow, revealing the hidden color. If two orbs touch but have different color, nothing happens. The orbs are heavy, so you can only touch two at a time.

The Challenge: What is the least number of comparisons needed to find one of the orbs of the majority color?

Submit solutions to Ross 2239G or to oscar.levin@unco.edu by **Friday, December 13**.

New this semester: 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 (but sadly, no magic orbs). So submit your answer TODAY!