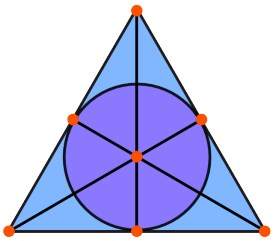
Math Challenge Problem

for early September, 2014

The Bus Stops Here



A new bus company, FPG Bus Lines, Inc., is planning to set up shop in your home town. Each bus will have its own route, making exactly 6 stops. Each bus stop will serve at most 6 different bus routes. Further, FPG wants to ensure that its customers will be able to get from any one stop to any other without having to switch buses (assuming they pick the right bus).

The Challenge: What is the largest number of bus stops possible, given the above restrictions, and how many buses will be needed?

Submit solutions to Ross 2239G or `oscar.levin@unco.edu` by **Monday, September 15**.

The best solution will be announced at the following Math Club (Wednesdays at 4:30) and WIN A PRIZE!
Prizes include nifty Rubik's style puzzle cubes, math puzzle books, math games, even a math coloring book. So submit your answer TODAY!