



Lewis & Clark College

Department of Mathematical Sciences

Problem of the Week #1	(Fall 2010)
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You have reached a fork in the road. One path leads to *Truth City* where everyone always tells the truth and the other path leads to *Lie City* where everyone always tells a lie. When you are deciding which path that will take you to *Truth City*, there is a stranger at the fork of the road who is a native of one of the two cities. Given one question, what can you ask the stranger in order to find out which path leads to the city of truth? Please explain your answer.

- Solvers should include their name, address, and status at the College. Solutions can be mailed to MSC 110 via campus mail or placed in Yung-Pin Chen's mailbox in the Math Department Office. Solutions to the above *Problem of the Week* should be received by 10:00 a.m. Tuesday, September 7, 2010. (Because it is Labor Day on September 6, we have this first POW due on a Tuesday. The rest POW will be due by 5:00 p.m. on each Monday.)