Pi Mu Epsilon
Problem of the Month
November 2009

Explain which is greater: the number of whole numbers from one to one trillion that include the digit 1 or the number of such whole numbers that do not.

Problem of the Month Rules:
- ⌘ Submissions must include a complete mathematical justification along with the answer.
- ⌘ Submissions may only be made by individuals or groups of two and must be dated.
- ⌘ Due date: November 25, 2009 before 5 p.m.; they may be given to Dr. Leigh Lunsford, Dr. Phillip Poplin, or Dr. David Shoenthal (Mathematics).

Pi Mu Epsilon Problem of the Month website:
http://www.longwood.edu/staff/shoenthaldw/potm.html