

# Pi Mu Epsilon Problem of the Month January 2010

How many three-digit numbers are composed of three distinct digits such that one digit is the average of the other two?

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: January 25, 2010 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>