

# Pi Mu Epsilon

## Problem of the Month

### March 2009

Alpha, Beta, Gamma and Delta are good friends. Delta had no money, but the others did. Beta gave Delta one-fifth of his money, Alpha gave Delta one-fourth of his money and Gamma gave Delta one-third of his money. Each gave Delta the same amount of money. What fractional part of the group's money does Delta now have?

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: March 24, 2009 before 5 p.m.; they may be given to Dr. Leigh Lunsford, Dr. Phillip Poplin, or Dr. David Shoenthal (Mathematics).
- ⌘ Problem reference to be cited after the due date.

Pi Mu Epsilon Problem of the Month website:

<http://www.longwood.edu/staff/shoenthaldw/potm.html>