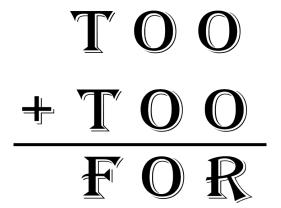
## Math Challenge Problem

for early February

Extra Cryptic Cryptarithmetic



A cryptarithmetic puzzle is an arithmetic problem in which each numeral has been replaced with a unique letter. The goal is to determine which letter represents which numeral to make the arithmetic valid.

The cryptarithmetic puzzle above does not have a solution...in base 10.

**The Challenge:** Find all bases for which the above cryptarithmetic puzzle has a *unique* solution.

Submit solutions to Ross 2239G or to oscar.levin@unco.edu by Wednesday, February 15.

The best solution will be posted on the Math Challenge Problem webpage.

Look for a new Challenge Problem for the second half of February.