Martha H Byrne* (byrnema@earlham.edu), Earlham College, Drawer 138, 801 National Rd W, Richmond, IN 47374. Divisibility and Logic - A Problem for Math Circles.

This talk will present a problem accessible to either students or teachers. The solution uses only common divisibility rules and logic to construct a 10-digit number. This problem successfully engaged small groups at an established math teachers’ circle in the southwest. (Received September 15, 2014)