

***** **Mathematical Weekly** *****
(week one)

- 1) pick an arbitrary number from $\{1,2,3,4,5,6,7,8,9\}$
- 2) subtract 5 (can result in a negative number)
- 3) multiply by 3
- 4) square the number (multiply by the same number -- not square root)
- 5) add the digits until you get only one digit (i.e. $64=6+4=10=1+0=1$)
- 6) if the number is less than 5, add five; otherwise subtract 4
- 7) multiply by 2
- 8) subtract 6
- 9) stop
- 0) Let me guess. I don't know what number you had at the beginning, but I'm quite sure that when you stop here, you have a number 4.

If you don't believe me, try again.