January 2017 challenge

MIND-Xpander Logic Puzzle

There are five people in a room and each shakes every other person's hand exactly one time. How many handshakes will there be?

Roman Arithmetic Puzzles

Solve the following arithmetic problems and state your answers in Roman Numerals. Letters representing numbers in the Roman numerical system: I = 1, V = 5, X = 10, L = 50, C = 100, D = 500, M = 1,000. In this system, a letter placed after another of greater value adds (thus XVI is 16) whereas a letter placed before another of greater value subtracts (thus XC is 90).

      A. DCCLXV – CXX + XLIV – XCV = ?

      B. CCCXXI + DCLIV + CMLIIIVII = ?

      C. DIII + XDXII + CMXXIV + CLXXI = ?

      D. DCLXVI – DVI + DLV + CCCXXXIII + CDXLIV = ?

HEXAGON-numeric Puzzle (Level 2)

Fit the numbers 1 – 6 in each hexagon and where the hexagon segments touch each other, their numbers in these 2 segments will be the same. No number can be repeated in a hexagon. The numbers in the shaded areas are the sum of the numbers in the 2 or 4 segments that they side with. The numbers in the 'Input' and 'Output' boxes are the sum of the numbers in the 3 triangular segments that they side with. Solve the puzzle and find the 'Output' number (?).