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12) In a room with 10 people, everyone shakes hands with everybody else exactly once. How many handshakes are there?

11) Place the numbers from 1 through 9 into the grid below so that the sum of each row, column, and diagonal is the same. (This is often referred to as a "magic square.")

2	9	4
7	5	3
6	1	8

10) Prove that the segments joining each vertex of a given triangle (of any shape) with the remote vertex of the equilateral triangle (drawn externally on the opposite side of the given triangle) are congruent.

