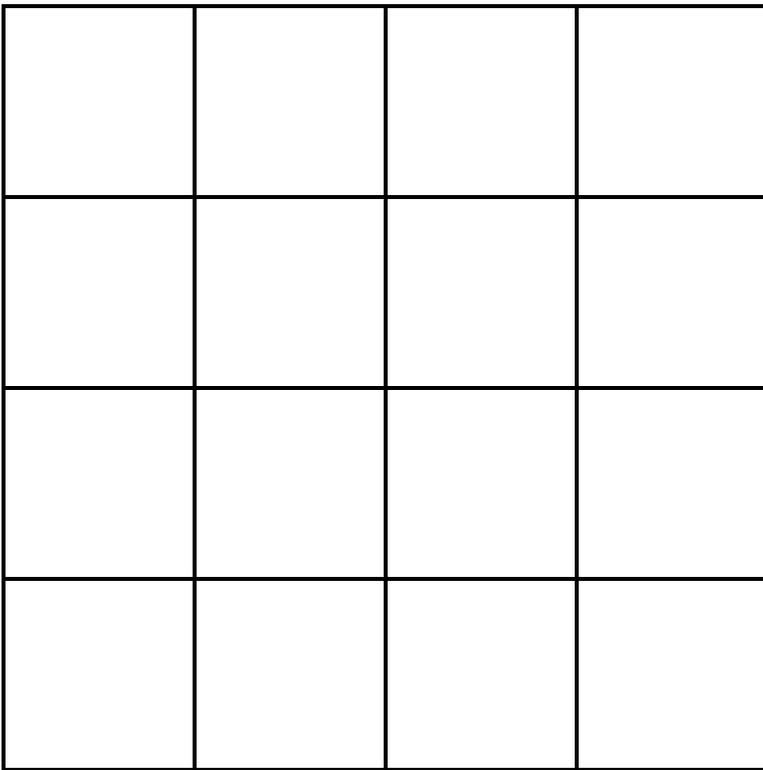


fun with NUMBERS

How many total squares can you see?

(clues: line segments are equal, and each angle is 90 °)



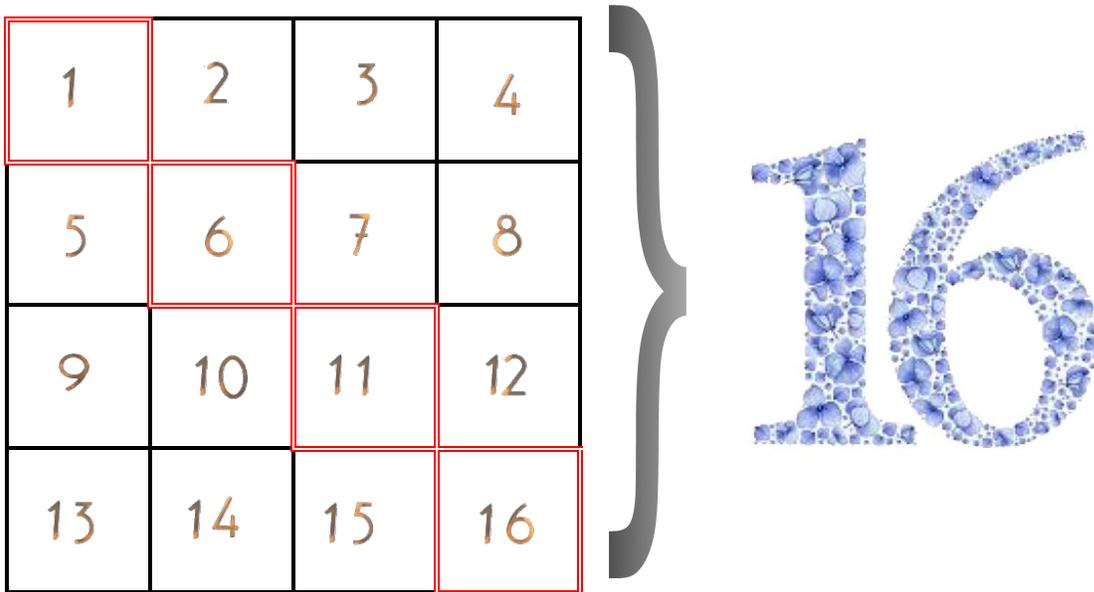
and ... **16**

*wouldn't be the
correct answer ...*

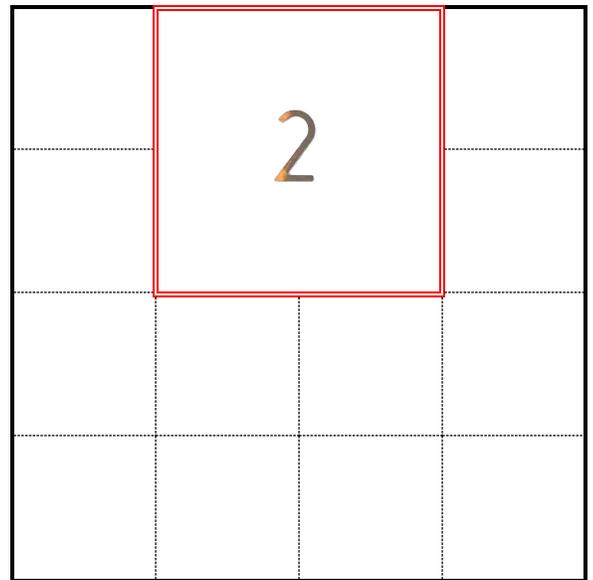
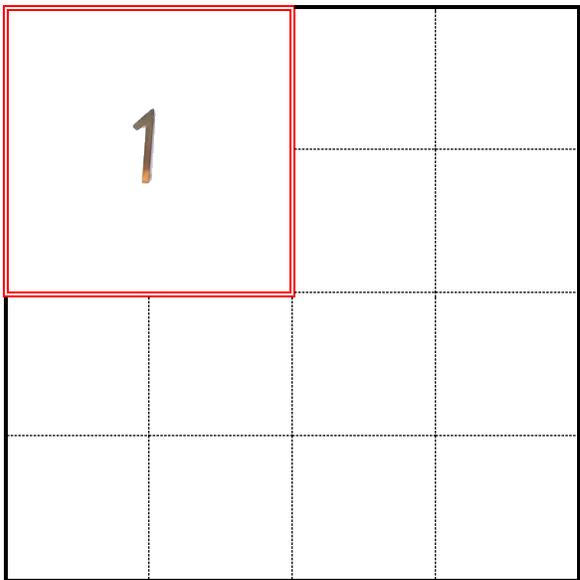
let's count the correct number of squares ...

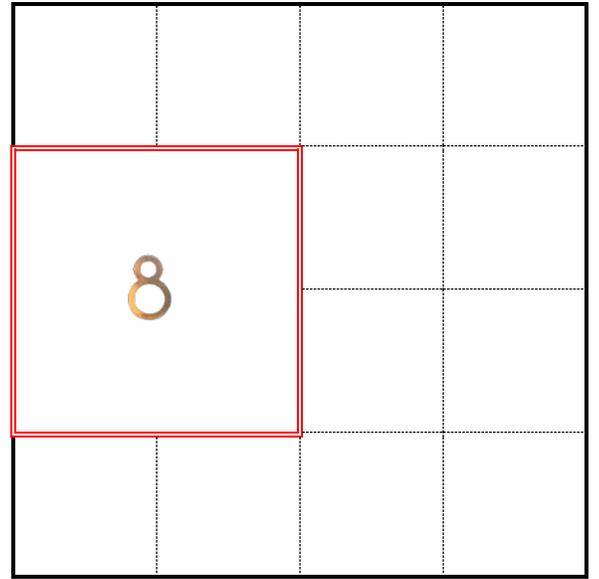
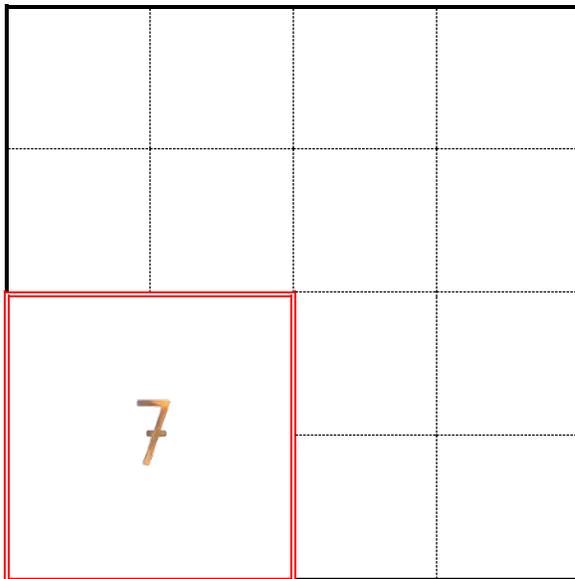
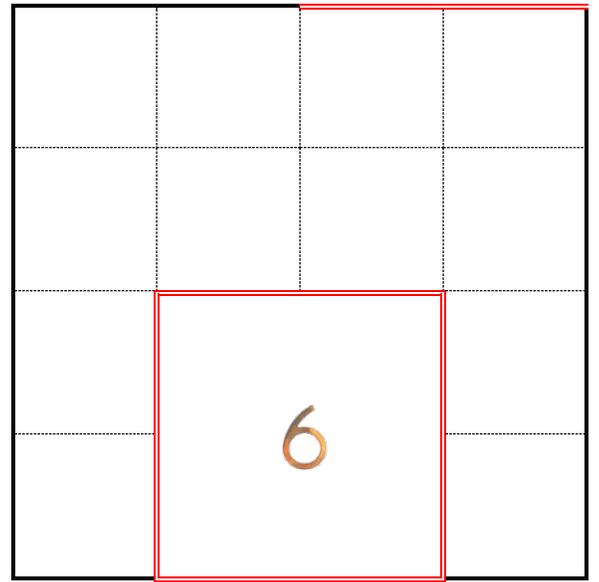
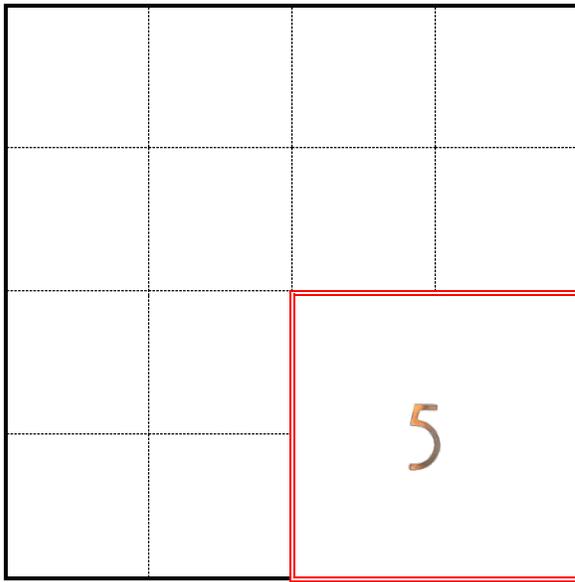
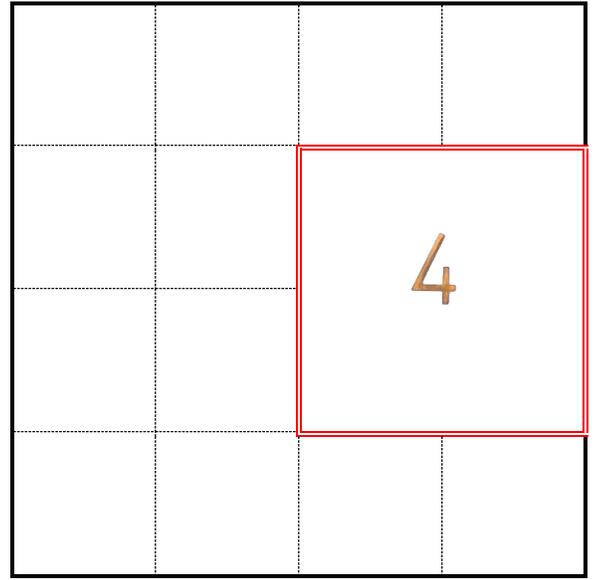
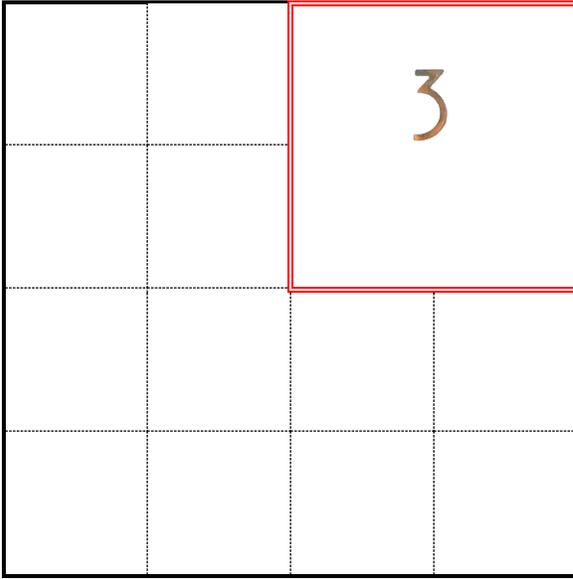
Throw away the complicated mathematical calculations and fancy algorithms for the time being ... let's focus on some simple elementary concepts ... **NUMBER COUNTING: 1 ♦ 2 ♦ 3 ♦ 4 ... SO FAR, SO GOOD ... DIRECTIONS: NORTH ♦ SOUTH ♦ EAST ♦ WEST ... excellent ... we've mastered the difficult parts so far.**

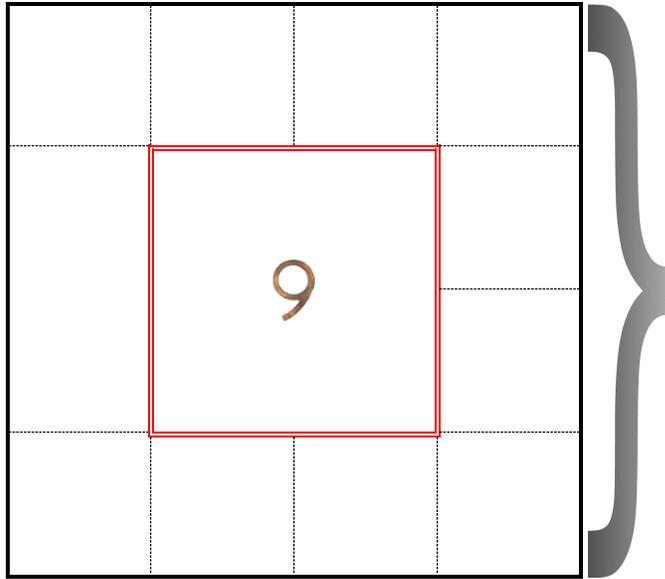
Whew ... the difficult part is behind so let's start from the beginning using the counting function, and begin with the squares having one side:



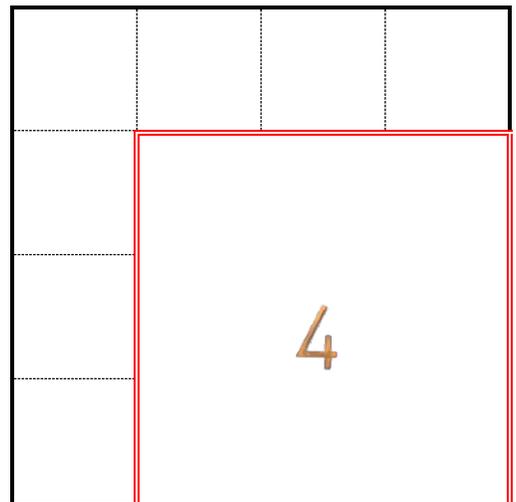
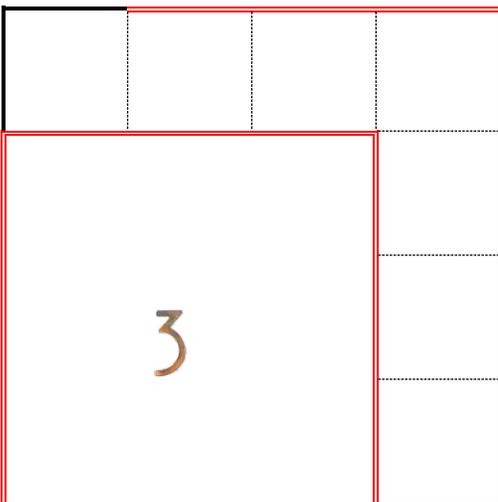
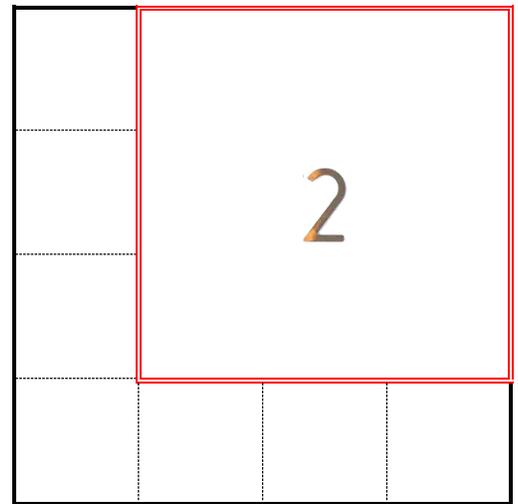
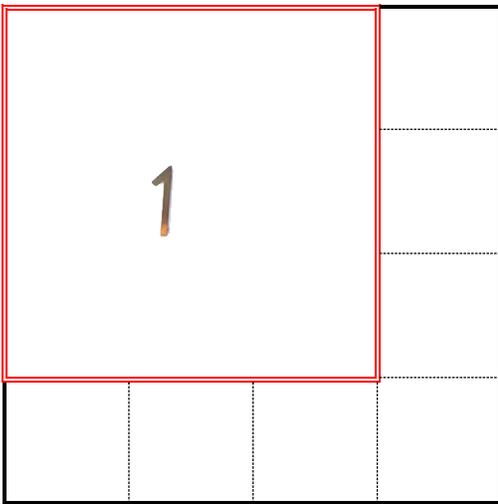
Next, using logical directions, beginning in the northwest, with the first square, then counting the two-sided squares:



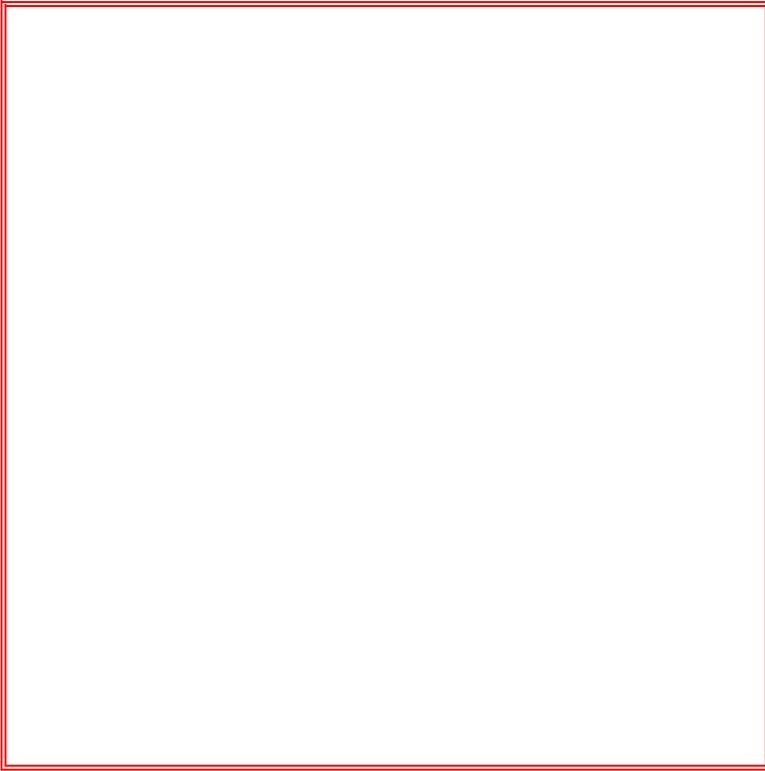




Continuing to use using logical directions, and again beginning in the northwest with the first square, then counting the three-sided squares:



Finally, counting the three-sided squares counting the squares that have four sides:



1

$$16 + 9 + 4 + 1 = 30$$