

# SQUARE TO ZERO

Draw a LARGE SQUARE.

At each corner, write any number that is less than 100.

Choose any side of the square – it will have a number at each end – SUBTRACT the smaller number from the larger number – and write your answer at the MID-POINT of the side you chose.

Do this for all 4 sides then join the 4 mid-point numbers to give a NEW SQUARE (although it has been turned round a bit!).

Choose any side of this new square – using the numbers at each end - SUBTRACT the smaller number from the larger number – and write your answer at the MID-POINT

Do this for all the sides.

Join mid-points to make yet another square.

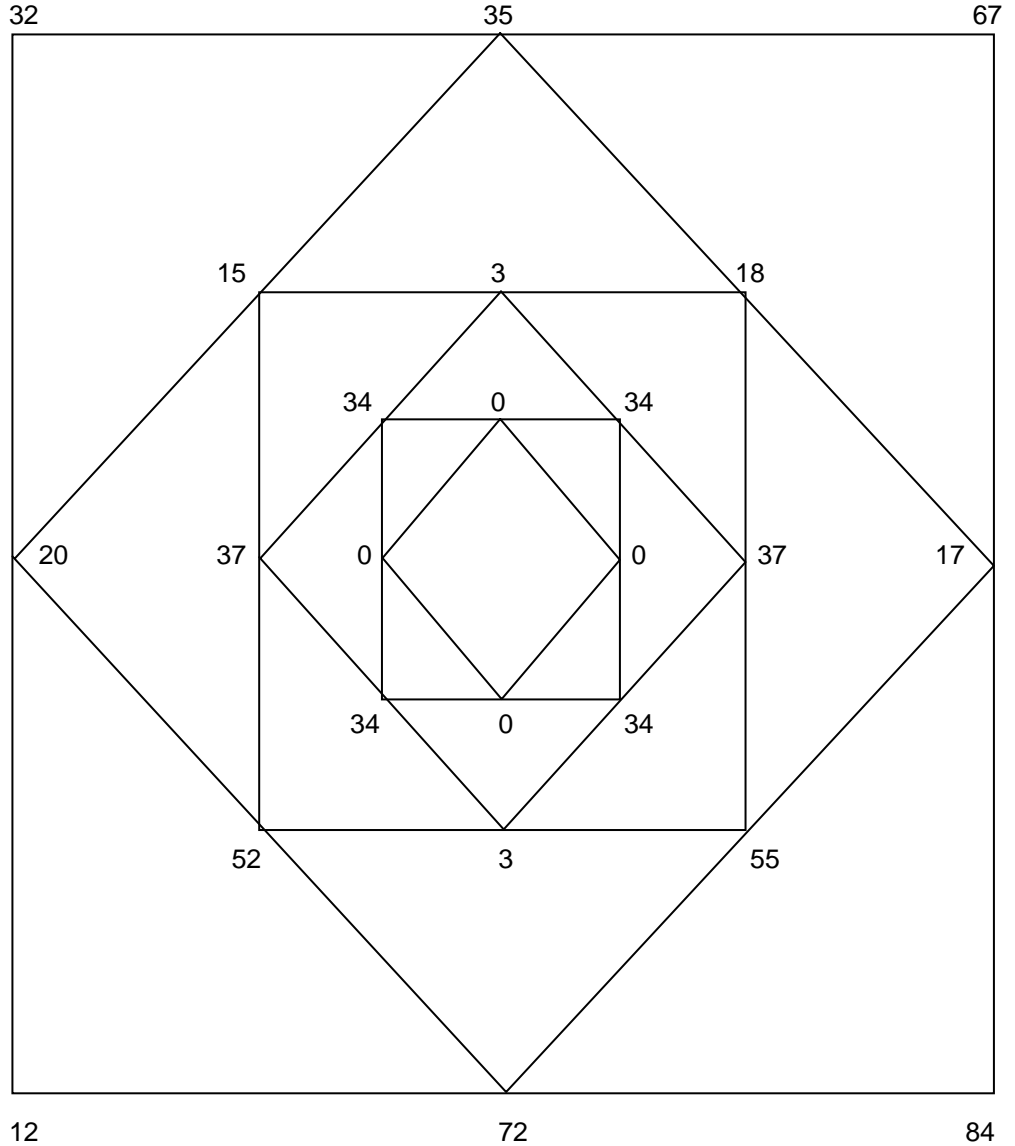
Keep going until you have a square that has four zeroes at the corners.

Count how many squares you have drawn altogether.

Most of the time, your chosen numbers will reduce to zero after you have drawn 6 or 7 squares BUT

it is possible to choose numbers that take as many as 14 squares to reduce to zero.

Choose a different set of starting numbers and see if you can increase your score.



Use this table to keep a record of your efforts.				Number of squares needed to reduce to zero.
STARTING NUMBERS				
12	32	67	84	6