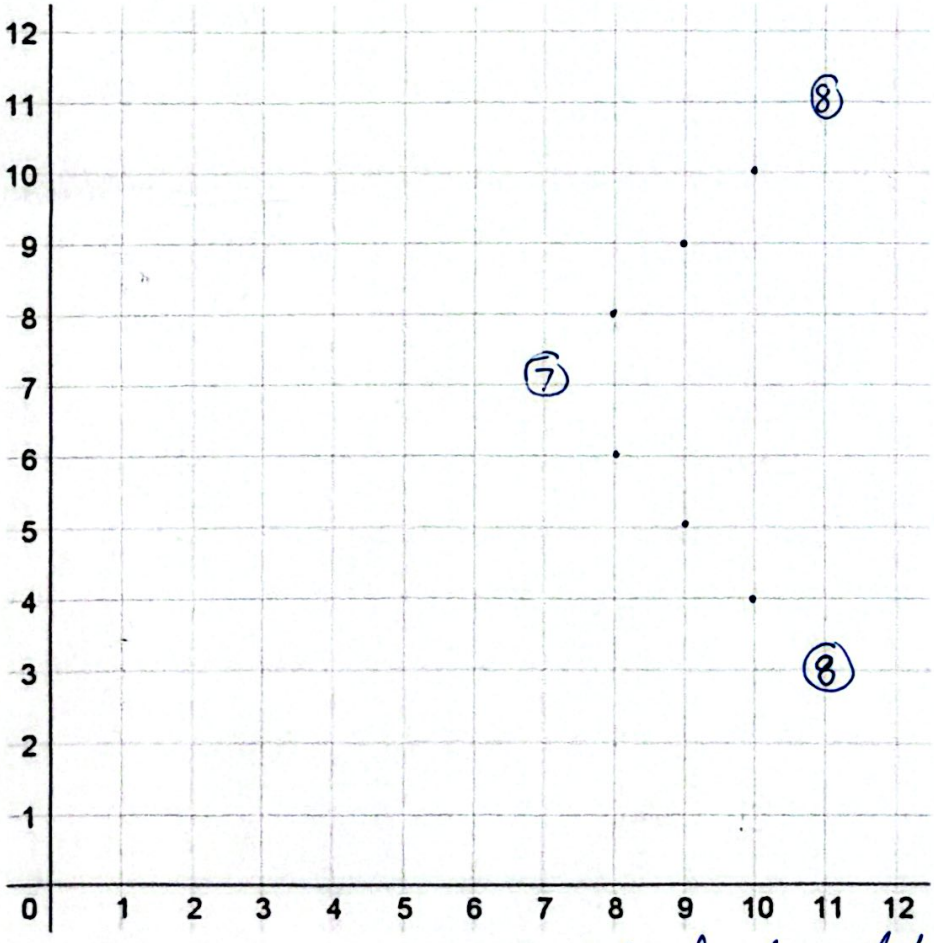
Treasure Hunt

This is a game for two players, or it can be played against the computer at https://nrich.maths.org/6288 .

The grid below represents a beach. Player 1 chooses a point on the beach to hide the treasure and writes it down secretly. The treasure must be hidden where the grid lines intersect (cross).

Player 2 chooses coordinates to find the treasure with the fewest guesses. For each of player 2's guesses, player 1 must tell them the shortest distance you'd have to travel (along the grid lines) to reach the treasure.

Can you find a reliable strategy for choosing coordinates that will locate the treasure in the minimum number of guesses?



A good strategy is comparing the distance from two coordinates, if those two coordinates result in the same distance, the treasure would be between them in a diagonal path.

By checking the difference between two digits, it can remove the choices quickly and find the treasure in a few guesses.

http://nrich.maths.org/6288
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