

As we know, the sum of two sides of triangle must be bigger than the length of the greatest side.

We have possible pairs of sides for triangle:

(6,5)(7,4)(7,5)(7,6)(7,8)(7,9)(8,3)(8,4)(8,5)(8,6)(8,7)(8,9)(9,2)(9,3)(9,4)(9,5)(9,6)(9,7)(9,8).

There are 19 pairs (one side, other side) of triangle which is not isosceles. As for the isosceles triangles there will be only 4 pairs : (6,6)(7,7)(8,8)(9,9).