

Finding all nice sets

Given the number _____, find five other numbers, all different, to make a nice set.

Given the numbers _____ and _____, find four other numbers to make a nice set.

Given the numbers _____, _____ and _____, find three other numbers to make a nice set.

Given the numbers _____, _____, _____ and _____, find two other numbers to make a nice set.

Given any five numbers, is it possible to add a sixth number to make a nice set? Why or why not?

Complete and prove the conjecture: A set is nice if and only if...
