

E-Problem 2 [Counting Muskmelons!]

An old woman goes to market and a horse steps on her basket and crashes the muskmelons. The rider offers to pay for the damages and asks her how many muskmelons she had brought. She does not remember the exact number, but when she had taken them out three at a time, there was one muskmelon left. When she took 4 at a time, there were 2 muskmelons left. When she took 5 at a time, there were 3 muskmelons left. When she took 6 at a time, there were 4 muskmelons left. Find the smallest such number, if any exists.

- Add the requirement that the number N must be divisible by 13.