[nex4] Educated guess

A railroad company numbers its locomotives in order, $1, 2, \ldots, N$.

- (a) One day, you see a locomotive, and its number is 60. What is your best guess for the total number N of locomotives which the company owns?
- (b) On the following days, you see four more locomotives, all with numbers smaller than 60. What is your best guess for N based on this additional information? Describe your reasoning carefully and in detail.

Solution: