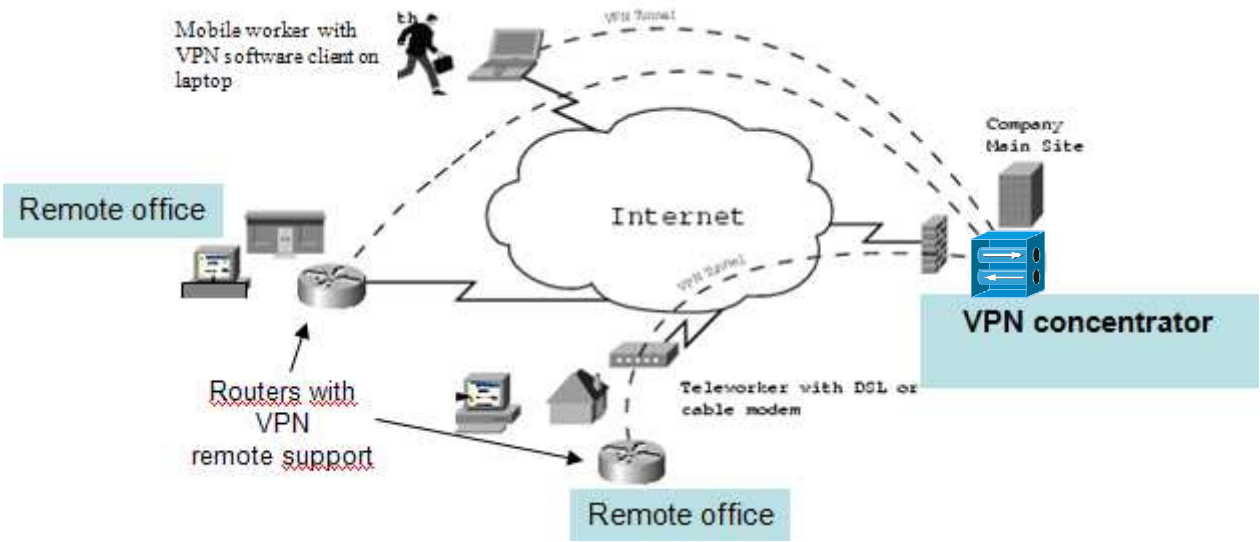Suppose you have to design an IPSec VPN-based remote access service for a company's employees. Assume that requests for establishing a VPN arrive according to a Poisson process with rate 200 [requests/hour] and that the average duration of the secure connections is equal to 30 minutes. Determine the minimum number of VPNs that the VPN concentrator must be able to support in order that the blocking probability (that is, the probability of the event "a request is refused") is less than 0.01. Introduce any further hypotheses needed to use the stochastic model that you intend to adopt.