Performance indices of a small company Intranet

The intranet of a small company, with N = 100 employees, is composed by three servers: the mail server, the file server, and the Intranet applications server. Their average service times are respectively: S_m = 50ms, S_f = 150ms and S_a = 25ms. The three stations are also characterized by the following visits: v_m = 0.7, v_f = 0.2 and v_a = 1.
Knowing that the think time of the users is Z = 10 s,

Compute:
1. The demand of the three station
2. The system throughput
3. The system response time