Homework Assignment #3

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1. The mean duration of a phone conversation is 3 mins calls per minute ( must be less than calls per minute to keep the system stable).

The average waiting time , where is the server utilization.

Since calls per minute.

1. Denote the arrival rate of customers that choose to eat in the restaurant as and that of those who carry out their orders as .

According to the Little’s Law, the average number of customers in the restaurant

1. Let and be the expected customer response time in systems 1 and 2, respectively. (<https://www.kth.se/social/files/54b4f34af2765457d15971d7/nain-qt-basics.pdf> p.28)
2. <https://www.kth.se/social/files/54b4f34af2765457d15971d7/nain-qt-basics.pdf> p.24