Results for input: 720 5 3

A screenshot of a cell phone

Description automatically generated

Results for input: 720 3 3

A screenshot of a cell phone

Description automatically generated

***Discussion:***

I have run the software many times to reduce the randomness effect and the results remained similar. We changed only the maximum arrival time, it will depend on certain conditions.

The Number of Customers: The total amount of customers has grown. If customers are coming faster we can saw the increment the overall number of customers served will increase.

Average Wait Time: My expectation was it to get longer and it got longer due to a rise in customer numbers.

Average Service Time: Average service time didn’t change a lot because both the service time and the customer served shifted at similar ratios.

Maximum Wait Time: Maximum waiting time depends on the number of customers in the queue. As the number of customers in the queue increased, maximum wait time was increased.

Maximum Queue Length: Maximum queue length increased due to the increased number of customers.

Average Arrival Interval Time of Customers: Average Arrival Interval Time of Customers decreased due to the decrement of the maximum arrival time and arrival time. The amount of customers has grown and because it's on the denominator we can observe that the ratio decreases.