Model: Drilling Press

In a manufacturing plant, in a particular work station, parts are coming with an exponentially distributed interarrival time of 5 minutes to get processed in a drilling station. The work station is equipped with one drilling machine; the drilling time is triangularly distribution with a minimum value of one (1), maximum of six (6) minutes, and most likely value of three (3) minutes.

1. Develop an Arena model for this process and run it for 20 minutes.
2. Report the following statistics

|  |  |
| --- | --- |
| Output Statistics | Value |
| Total number of parts entered the system |  |
| Total number of drilled parts exited the system |  |
| Maximum number of parts in the system in a particular time (work in process) over the 20 mins run |  |
| Average number of parts in the drilling queue |  |
| Average waiting time of the parts in the system |  |

