$$\begin{array}{lll}
A = 18 & \text{customus} / \text{how} \\
C = 2 ; E(s) = \frac{1}{9} & \text{pm-n} / \text{cutomus} \\
A = \frac{1}{E(s)} = 9 & \text{(each)}
\end{array}$$

$$\begin{array}{lll}
N = 7 \\
P_0 = \left(1 + \left(\frac{C}{N} - \frac{a^m}{m!}\right) + \left(\frac{a}{C!} - \frac{N}{N} - \frac{p^{m-c}}{N}\right) - 1 \\
P_0 = \left(1 + \left(\frac{a}{1!} + \frac{a^2}{2!}\right) + \frac{a^2}{2!} + \left(\frac{1}{1!} + \frac{1}{1!} + \frac{1}{1!} + \frac{1}{1!}\right) - 1
\end{array}$$

$$\begin{array}{lll}
P_0 = \left(1 + \left(\frac{a}{1!} + \frac{a^2}{2!}\right) + \frac{a^2}{2!} + \left(\frac{1}{1!} + \frac{1}{1!} + \frac{1}{1!} + \frac{1}{1!}\right) - 1$$

$$\begin{array}{lll}
P_0 = \left(1 + \left(\frac{a}{1!} + \frac{a^2}{2!}\right) + \frac{a^2}{2!} + \frac{a^2}{1!} + \frac{a$$

$$= \frac{2^{2} (0.0667)}{4!} (7-2+1) (7-2)$$

$$= \frac{4 \times 0.0667}{4 \times 3.2} (8) (5)$$

$$= 0.3333$$

Long term average number of customere waiting in line are 0.3334.

$$\begin{array}{lll}
Na &= \frac{La}{\lambda e} \\
\lambda e &= (1-P_N) \lambda \\
P_N &= \frac{a^N P_0}{c! c^{N-C}} = \frac{2^7 \times 0.0667}{2! 2^5} \\
&= 2^2 \times 0.0667
\end{array}$$

2! = 0.1334  $\lambda = (1-PN) \lambda = (1-0.1334) \times 18$  = 15.5988 aut./le.

$$Wa = \frac{La}{\lambda e} = \frac{0.25998}{0.25998}$$

$$= \frac{0.3334}{0.25998}$$

$$= 1.2824$$

The long term average writing time for customer is 1.2824 minutes.

The long term average time a metomer spende in 1.3935 minutes.

= 0.25998 × 1...

= 0.3623

The long term average number of untower in the state is 0.3623.