

Example 3.1

$$Q: \lambda = 8 \quad \mu = 10 \quad \text{Find } U, L, Q, W, D$$

$$\text{Solution } U = \frac{\lambda}{\mu} = \frac{8}{10} = 0.8$$

$$L = \frac{\rho}{1-\rho} = \frac{\lambda}{\mu-\lambda} = \frac{8}{10-8} = 4.0$$

$$Q = \frac{\lambda^2}{\mu(\mu-\lambda)} = \frac{8^2}{10 \times (10-8)} = \frac{64}{20} = 3.2$$

$$W = \frac{1}{\mu-\lambda} = \frac{1}{10-8} = \frac{1}{2} = 0.5$$

$$D = \frac{\lambda}{\mu(\mu-\lambda)} = \frac{8}{10(10-8)} = 0.4$$