**Example** In a sample of material taken from a textile factory 40% had at least one fault. Estimate the mean number of faults per sample.

P(X$\geq $1) = 0.4 CALCULATE $λ$

ANSWER $λ$=0.5108

**EXAMPLE**

X has a Poisson distribution with mean λ. Calculate the value of λ if

P(X$\geq $1) = P(X=0)

Or P(X=0) = 0.5

BECAUSE P(X$\geq $1) + P(X=0)=1

ANSWER $λ$=0.69