**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(X1) = 0.4 CALCULATE

ANSWER =0.5108

**EXAMPLE**

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

P(X1) = P(X=0)

Or P(X=0) = 0.5

BECAUSE P(X1) + P(X=0)=1

ANSWER =0.69