CHAPTER 2 : POISSON DISTRIBUTION

- * If $X \sim Po(x)$ then $P(X=x) = \frac{e^{-x}x^x}{x!}$ where x is the rate.
- * Conditions: 10 Events occur independently
 - 2 Events occur singly in space or time
 - (3) Events occur at a constant rate
- ? Hence if for some data collected the mean and variance are close, this is a good indicator for Poisson being a suitable model * E(X)=>
- * $Var(X) = \lambda$
- * For P(Xxx) you can use the tables provided a is a multiple of 0.5 and at most 10.

BINDMIAL OR POISSON?

For Binomial look for the words trials, proportion, fixed number

For Poisson look for the words rate, events.