## THEORETICAL DISTRIBUTION

Binomial Distribution, Poisson Distribution, Normal Distribution

Binomial

Constants of Binomial Distribution

No. of Successes (x)	Probability
0	$n_{co}p^{o}q^{n}=q^{n}$
1	$n_{c1}pq^{n-1}$
2	$n_{c2}p^2q^{n-2}$
3 de bras de este envenien	$n_{c3}p^3q^{n-3}$
A contract the property of the same of a	$n_{cr}p^rq^{(n-r)}$
n	$n_{cn}p^nq^o=p^n$

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Poisson

 $(p+q)^n$ Mean
Variance
Standard Deviation
Skewness  $(\beta_1)$ 

 $\leftarrow$  Kurtosis  $(\beta_2)$ 

 $=1 \\ = np$ 

 $= \frac{npq}{\sqrt{npq}}$  $= \frac{(q-p)^2}{\sqrt{npq}}$ 

 $=3+\frac{1-6pq}{npq}$ 

	No. of Successes	Probabilities
7.5	0	e-m
	<b>1</b> - 3 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	$m.e^{-m} \ m^2.e^{-m}$
N. T.	2	
	3	$\frac{m^3.e^{-m}}{2!}$
	<b>r</b>	$\frac{3!}{m^r.e^{-m}}$
	n	$\frac{m^n \cdot e^{-m}}{n}$

Mean

= m = p

Standard Deviation

 $=\sqrt{m}$ 

Kurtosis  $(\beta_2)$ 

Skewness  $(\beta_1)$ 

 $=3+\frac{1}{-}$ 

Variance

-- m