

- Types of Distributions

Table

X	1	2	3	4
$P(X=x)$	0.2	0.2	0.5	0.1

= 1 or

Function

$$P(X=x) = \begin{cases} 0.2 & x=1,2 \\ 0.5 & x=3 \\ 0.1 & x=4 \end{cases}$$

= 1

- Binomial Distribution $X \sim B(n, p)$

$$P(X=r) = \binom{n}{r} p^r (1-p)^{n-r}$$

 n = number of trials r = number of success required p = probability of success $P(X=x)$ Binomial PD $P(X \leq x)$ Binomial CD (cumulative)

$$P(X \geq 5) = 1 - P(X \leq 4)$$

CLASSWIZ CALCULATOR

menu

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4: Binomial PD

down arrow

1: Binomial CD

GRAPHICAL CALCULATOR

menu

STAT

DIST

Bpd

or

Bed

Data: variable