

Read Online

Binomial

Distribution

Sample And

Solutions

*The Binomial
Distribution /
Binomial Probability
Function The*

Read Online

Binomial

Distribution

Sample And

Solutions

*Binomial Distribution
and Test, Clearly*

Explained!!! Finding

The Probability of a

Binomial Distribution

Plus Mean μ

Standard Deviation

Binomial

Distribution: Past

Paper Questions

Using the Binomial

Distribution Formula

Read Online

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Distribution

Binomial distribution

| *Probability and*

Statistics | Khan

Academy Discrete

Probability

Distributions:

Example Problems

(Binomial, Poisson,

Hypergeometric,

Geometric) Binomial

Distribution examples

| *ExamSolutions*

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Negative binomial

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Example 1

Introduction to the

Negative Binomial

Distribution Binomial

Distribution Word

Problem 1

~~*Introduction to the*~~

~~*Bernoulli Distribution*~~

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*Negative Binomial
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Example Binomial*

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Hypothesis Testing

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proportion)

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Distribution
~~the Probability~~
Sample And
~~Solutions~~
Tables

*Basics of Probability,
Binomial \u0026amp;*

*Poisson Distribution:
Illustration with
practical examples*

*Binomial distribution
probability (solve
with easy steps) 02 -*

*Random Variables
and Discrete*

Read Online Binomial

Distribution Probability Sample And Solutions

*Binomial Distribution
Sample And Solutions*
So, as we have the
basis let's see some
binominal distribution
examples, problems,
and solutions from
real life. Example 1:
Let's say that 80% of
all business startups

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Binomial

Distribution

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*conditions of the
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model?*

*Binomial Distribution
Examples, Problems
and Formula*

*Binomial Distribution
Examples And
Solutions. Example 1:
If a coin is tossed 5
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Binomial

Distribution

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Exactly 2 heads (b)

At least 4 heads.

Solution: (a) The

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the coin is an

example of a

Bernoulli trial.

According to the

problem: Number of

trials: $n=5$.

Probability of head:

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Binomial
Distribution

*$p = 1/2$ and hence the
probability of tail, q
 $= 1/2$*

*Binomial Distribution
In Probability -
Formula and
Examples*

*The terms p and q
remain constant
throughout the
experiment, where p*

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Binomial

Distribution

is the probability of getting a success on any one trial and $q =$

$(1 - p)$ is the

probability of getting a failure on any one

trial. The following diagram gives the

Binomial Distribution

Formula. Scroll down the page for more

examples and

Read Online
Binomial
Distribution
solutions.
Sample And
Solutions

*Binomial Distribution
(examples, solutions,
formulas, videos)*

*The number of
successes X in n trials
of a binomial
experiment is called a
binomial random
variable. The
probability*

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Distribution
Sample And
Solutions

*distribution of the
random variable X is
called a binomial
distribution, and is
given by the formula:*

*' $P(X) = C_x^n p^x q^{(n-x)}$ ' where. $n =$
the number of trials.
 $x = 0, 1, 2, \dots n$. $p =$
the probability of
success in a single
trial*

Read Online
Binomial
Distribution

*12. The Binomial
Probability*

Distribution

*In our binomial
example 2, n (the
number of chosen
items randomly) is 6.*

*2nd Step: Find 'X'
from the question. X
is 3. 3rd Step: Solve
the first portion of*

Read Online
Binomial
Distribution

the formula. The first portion of the binomial distribution formula is. $n! / (n - X)! X!$ Put the values of each: $6! / (6 - 3)! \times 3!$

What is binomial distribution? Its Formulas & Examples ...

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*Distribution
Sample And
Solutions*
*Binomial Distribution
Criteria. The
binomial distribution*

*is a common way to
test the distribution
and it is frequently
used in statistics.*

*There are two most
important variables
in the binomial
formula such as: 'n' it
stands for the*

Read Online

Binomial

Distribution

*number of times the
experiment is
conducted 'p'*

*represents the
possibility of one
specific outcome*

Binomial

Distribution:

*Formulas, Examples
and Relation to ...*

Binomial Distribution

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Distribution

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Distribution
Chapter 5 Binomial
Distribution 105 (a)

$$P(X=4) = \binom{4}{4} (0.2)^4 (0.8)^0 = 1 \times 0.0016 \times 1 = 0.0016$$
$$= 0.0016 \text{ to 3 d.p.}$$

(b)

$$P(X \geq 1) = 1 - P(X=0)$$
$$= 1 - \binom{4}{0} (0.2)^0 (0.8)^4 = 1 - 1 \times 1 \times 0.4096$$
$$= 1 - 0.4096 = 0.5904$$
$$= 0.5904 \text{ to 3 d.p.}$$

Note that tables

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Distribution

giving cumulative

binomial probabilities

are given in the

Appendix (p 253)

and these can be used

where appropriate.

Example

Chapter 5 Binomial

Distribution 5

BINOMIAL

DISTRIBUTION

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*Distribution
Sample And
Solutions*

$P(\text{Two Heads}) = P(\text{HHT}) + P(\text{HTH}) + P(\text{THH}) = 1/8 + 1/8 + 1/8 = 3/8.$

$P(\text{One Head}) = P(\text{HTT}) + P(\text{THT}) + P(\text{TTH}) = 1/8 + 1/8 + 1/8 = 3/8.$

$P(\text{Zero Heads}) = P(\text{TTT}) = 1/8.$

We can write this in terms of a Random Variable,

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*X, = "The number of
Heads from 3 tosses
of a coin": $P(X = 3)$
 $= 1/8.$*

*The Binomial
Distribution - MATH
View Solution.
Binomial Distribution
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*Statistics Revision -
youtube Video. 3)*

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*(a): What probability
distribution then*

evaluating probability

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(b):

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Distribution

Exam Questions -

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Binomial Distribution

- Example Example A

quality control

engineer is in charge

of testing whether or

not 90% of the DVD

players produced by

his company conform

to specifications. To do

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Distribution

*this, the engineer
randomly selects a
batch of 12 DVD
players from each
day's production.*

*The Binomial
Distribution -
HAMILTON
INSTITUTE*

*In this resource, you
will find 7 binomial*

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*Distribution word
problems along with
the detailed solutions.*

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Word Problems.*

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Maths Probability*

*Binomial Binomial
Distribution Word
Problems. Learn*

from home. The

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Distribution

teachers. Emma.

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Sample And
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Word Problems |

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In the binomial

probability formula,

the number of trials

is represented by the

letter “n.” An example

of a fixed trial may

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Distribution

be coin flips, free throws, wheel spins, etc. The number of times that each trial is conducted is known from the start. If a coin is flipped 10 times, each flip of the coin is a trial.

Binomial Distribution

- Definition, Criteria,

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Binomial
Distribution
and Example

A binomial distribution is a specific probability distribution. It is used to model the probability of obtaining one of two outcomes, a certain number of times (k), out of fixed number of trials ...

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Binomial
Distribution

Sample And
Solutions
*Binomial
Distribution:*

*Definition, Formula
& Examples ...*

*The binomial
distribution tends
toward the Poisson
distribution as $n \rightarrow$
 ∞ , $p \rightarrow 0$ and np
stays constant. The
Poisson distribution*

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Distribution
with $\lambda = np$ closely
approximates the
binomial distribution
if n is large and p is
small. The Poisson
distribution is
typically used as an
approximation to the
true underlying
reality.

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Distribution

(examples, solutions)

Sample And
Solutions

The number of

erasers of Yellow 92

Blue 60 Red 160 (a)

(b) Colour Number

Green 88 A random

sample of 25 erasers

IS selected,

probability that: (i)

exactly 2 erasers are

green, (ii) at most 3

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Distribution

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the bin. Find the (4*

marks) (2 marks) (4

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erasers and 12

erasers, inclusive, are

red.

Exam Questions -

Binomial Pack A

In the binomial

distribution x is an

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Distribution

*integer taking values
over the interval $[0, n]$, while in the*

*Poisson distribution x
is an integer taking
values over the
interval $[0, \infty)$*

Poisson distribution

Examples with

Detailed Solutions

The best way to

explain the formula

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Distribution

for the Poisson

distribution is to solve

the following

example. Example 2

Poisson Probability

distribution Examples

and Questions

Definition of

Negative Binomial

Distribution A

discrete random

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Distribution

*variable X is said to
have negative*

binomial distribution

if its p.m.f. is given

by $P(X = x) = \binom{x+r-1}{r-1} p^r q^x$, x

$= 0, 1, 2, \dots$; $r = 1,$

$2, \dots$ $0 < p, q < 1, p$

$+ q = 1$. Mean of

Negative Binomial

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Distribution

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Solutions.

*The Binomial
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Standard Deviation

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Using the Binomial

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Binomial distribution

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*Example Problems
(Binomial, Poisson,
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Geometric) Binomial
Distribution examples
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Negative binomial
distribution --*

Example 1

*Introduction to the
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Distribution Binomial*

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Distribution Word

Problem 1

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problem and solution

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Example Binomial

Probability Example

Hypothesis Testing

(Binomial

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*Distribution
(Sample And
proportion)*

Example 1:

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*Distribution: Using
the Probability*

Tables

Basics of Probability,

Binomial \u0026

Poisson Distribution:

Illustration with

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Distribution

practical examples

Binomial distribution

probability (solve

with easy steps) 02 -

Random Variables

and Discrete

Probability

Distributions

Binomial Distribution

Sample And Solutions

So, as we have the

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Distribution

*binominal distribution
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*Let's say that 80% of
all business startups*

in the IT industry

report that they

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Distribution

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probability that

exactly seven will

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their first year. First,

do we satisfy the

conditions of the

binomial distribution

model?

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and Formula

Binomial Distribution

Examples And

Solutions. Example 1:

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At least 4 heads.

Solution: (a) The

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Binomial
Distribution

*example of a
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problem: Number of
trials: $n=5$.*

*Probability of head:
 $p= 1/2$ and hence the
probability of tail, q
 $=1/2$*

Binomial Distribution

In Probability -

Read Online Binomial

Formula and Examples

The terms p and q remain constant throughout the experiment, where p is the probability of getting a success on any one trial and $q = (1 - p)$ is the probability of getting a failure on any one

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Distribution Sample And Solutions

trial. The following diagram gives the Binomial Distribution Formula. Scroll down the page for more examples and solutions.

Binomial Distribution (examples, solutions, formulas, videos)

The number of

Read Online Binomial

Distribution

*successes X in n trials
of a binomial*

*experiment is called a
binomial random*

variable. The

probability

distribution of the

random variable X is

called a binomial

distribution, and is

given by the formula:

$$P(X) = C_x^n p^x$$

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Distribution

$q^{(n-x)}$ where. $n =$
the number of trials.
 $x = 0, 1, 2, \dots n.$ $p =$
the probability of
success in a single
trial

12. The Binomial Probability Distribution

*In our binomial
example 2, n (the*

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Binomial

Distribution

number of chosen items randomly) is 6.

2nd Step: Find 'X'

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$X)! X!$ Put the values

of each: $6! / (6 -$

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Distribution
Sample And
Solutions

$$3)! \times 3!)$$

What is binomial distribution? Its Formulas & Examples ...
Binomial Distribution Criteria. The binomial distribution is a common way to test the distribution and it is frequently

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used in statistics.

There are two most important variables in the binomial formula such as: 'n' it stands for the number of times the experiment is conducted 'p' represents the possibility of one specific outcome

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Distribution

Sample And
Solutions
*Binomial
Distribution:*

*Formulas, Examples
and Relation to ...
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*Chapter 5 Binomial
Distribution 105 (a)*

$$P(X = 4) = \binom{6}{4} (0.4)^4 (0.6)^2$$

$$= \frac{6!}{4!2!} (0.4)^4 (0.6)^2$$

$$= \frac{6 \times 5 \times 4!}{4! \times 2 \times 1} (0.4)^4 (0.6)^2$$

$$= 15 \times 0.0256 \times 0.36$$

$$= 0.13824$$

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Distribution

(b)

$$\begin{aligned} P(X \geq 1) &= 1 - P(X = 0) \\ &= 1 - \binom{6}{0} (0.2)^0 (0.8)^6 \\ &= 1 - 1 \cdot 1 \cdot 0.268432 \\ &= 0.731568 \\ &\approx 0.732 \text{ to 3 d.p.} \end{aligned}$$

Note that tables giving cumulative binomial probabilities are given in the Appendix (p 253) and these can be used where appropriate.

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*Chapter 5 Binomial
Distribution 5*

BINOMIAL

DISTRIBUTION

P (Two Heads) = P (
HHT) + P (HTH) +
P (THH) = 1/8 +
1/8 + 1/8 = 3/8. P

(One Head) = P (
HTT) + P (THT) +

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Distribution
Sample And
Solutions

$P(TTH) = 1/8 + 1/8 + 1/8 = 3/8$. $P(\text{Zero Heads}) = P(TTT) = 1/8$. We can write this in terms of a Random Variable, X , = "The number of Heads from 3 tosses of a coin": $P(X = 3) = 1/8$.

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Binomial Distribution

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(a): What probability

distribution then

evaluating probability

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(b):

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Binomial distribution

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Binomial Distribution

- Example Example A

quality control

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engineer is in charge of testing whether or not 90% of the DVD players produced by his company conform to specifications. To do this, the engineer randomly selects a batch of 12 DVD players from each day's production.

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Distribution
Sample And
Solutions
*The Binomial
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will find 7 binomial
distribution word
problems along with
the detailed solutions.*

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Distribution

In the binomial probability formula, the number of trials is represented by the letter “n.” An example of a fixed trial may be coin flips, free throws, wheel spins, etc. The number of times that each trial is conducted is known from the start. If a

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Distribution

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*Binomial Distribution
- Definition, Criteria,
and Example*

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Distribution

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*number of times (k),
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Binomial

Distribution:

Definition, Formula

& Examples ...

The binomial

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Distribution

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with $\lambda = np$ closely

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if n is large and p is

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Distribution

typically used as an approximation to the true underlying reality.

*Poisson Distribution
(examples, solutions)*

*The number of
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Blue 60 Red 160 (a)
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Binomial

Distribution

sample of 25 erasers

15 selected,

probability that: (i)

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red.
Sample And
Solutions

*Exam Questions -
Binomial Pack A*

*In the binomial
distribution x is an
integer taking values
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 $n]$, while in the
Poisson distribution x
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values over the*

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Binomial

interval $[0, \infty)$

Poisson distribution

Examples with

Detailed Solutions

The best way to

explain the formula

for the Poisson

distribution is to solve

the following

example. Example 2

Poisson Probability

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Binomial

Distribution

*distribution Examples
and Questions*

Definition of

Negative Binomial

Distribution A

discrete random

variable X is said to

have negative

binomial distribution

if its p.m.f. is given

by $P(X = x) = \binom{x+r-1}{r-1} p^r q^x$, x

$- 1 \leq x < \infty$

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Binomial

Distribution

$= 0, 1, 2, \dots; r = 1,$

$2, \dots 0 < p, q < 1, p$

$+ q = 1.$ Mean of

Negative Binomial

Distribution