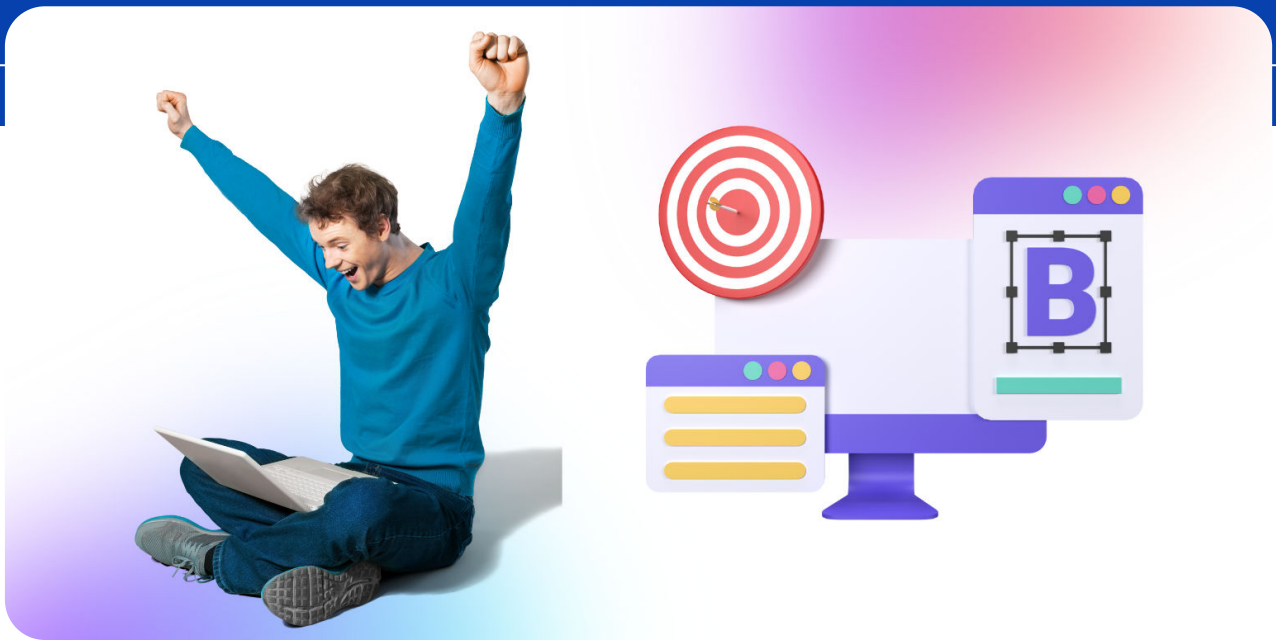
Edulyte

# BINOMIAL PROBABILITY FORMULA

A binomial probability is a probability of exactly the ‘k’ successes on the ‘n’ repeated trials during an experiment with two possible outcomes. It is a discrete probability distribution that will give the two possible results of an experiment, which will be either a failure or a success.

Read more



## Q1: In a binomial experiment, what are the possible outcomes for each trial?

A: 1
B: 2
C: 3
D: 4

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## Q2: What is the formula for calculating binomial probability?

A: P(k) = nCk * p^k * (1-p)^(n-k)
B: P(k) = nCk * p^(n-k) * (1-p)^k
C: P(k) = nCk * p^k
D: P(k) = nCk * p^(n-k)

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## Q3: What is the mean (expected value) in binomial probability?

A: np
B: p/n
C: np
D: p + n

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## Q4: Find the Expected value in Binomial Probability when the number of trials is 100, and the Probability is 1

A: 10
B: 50
C: 25
D: 100

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## Q5: If a Coin is Tossed five times, find the probability of exactly two heads

A: 2/16
B: 4/16
C: 5/16
D: 7/16

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## Q6: What do we use for Binomial Probability?

A: Permutation
B: Combination
C: Geometry
D: Functions

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## Q7: Find the Expected value in Binomial Probability when the number of trials is 90, and the Probability is 0.5

A: 45
B: 4.5
C: 450
D: 4500

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## Q8: If a Coin is Tossed five times, find the probability of Getting At Most two heads.

A: ⅓
B: ⅔
C: ½
D: ⅘

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## Q9: If a Coin is Tossed ten times, find the probability of getting At Least 6 Heads

A: 0.40
B: 0.79
C: 45
D: 0.38

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## Q10: Find the Expected value in Binomial Probability when the number of trials is 190 and the Probability is ½

A: 80
B: 85
C: 8.5
D: 190

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## Answers

**Q1:** B - 2

**Q2:** A - P(k) = nCk * p^k * (1-p)^(n-k)

**Q3:** A - np

**Q4:** D - 100

**Q5:** C - 5/16

**Q6:** B - Combination

**Q7:** A - 45

**Q8:** C - ½

**Q9:** D - 0.38

**Q10:** B - 85