

What is the formula for finding the probability of X taking a given value in a binomial distribution?

$$A. \quad P(X = n) = p^n$$

B.
$$P(X = 0) = q^n$$

C.
$$P(X=r) = n_{C_r} * p^r * q^{n-r}$$

D.
$$P(X \ge 4) = 1 - P(X \le 3)$$



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The correct answer is **C**

The formula for finding the probability of X taking a given value in a binomial distribution is $P(X=r) = n_{C_r} * p^r * q^{n-r}$, where r can vary from 0 to n.

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What is the Poisson distribution parameter representing the expected value of occurrences?

A. p

Β. λ

C. q

D. σ



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What is the Poisson distribution parameter representing the expected value of occurrences?

- 4. p
- B. 7
- C. q
- D. σ



The correct answer is **B**

Poisson distribution parameter λ represents the expected value of occurrences of an event.

What are the two criteria for a good estimator?

- A. Unbiasedness and minimum variance
- B. Variance and bias
- C. Bias and consistency
- D. Variance and efficiency



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The correct answer is A

A good estimator is unbiased and have minimum variance.

