TOPIC

Engineering Probability and Statistics – Section II – Question 7

QUESTION

We wish to estimate the mean μ of a population by the sample mean, \bar{x} , drawn from the population. Let *n* and *s* be the sample size and sample standard deviation, respectively. The probable accuracy of the estimate improves with an increase in

- (A) µ
- (B) *s*
- (C) *n*
- (D) μ +s

HINT

The simple sample average is an unbiased point estimate for μ , and the standard error of this estimator is $\frac{\sigma}{\sqrt{n}}$.