

20. You are given a sample of two values, 5 and 9.

You estimate $\text{Var}(X)$ using the estimator $g(X_1, X_2) = \frac{1}{2} \sum (X_i - \bar{X})^2$.

Determine the bootstrap approximation to the mean square error of g .

- (A) 1
- (B) 2
- (C) 4
- (D) 8
- (E) 16