

TOPIC

Engineering Probability and Statistics – Section II – Question 5

QUESTION

The life in hours of batteries is known to be approximately normally distributed with standard deviation $\sigma = 25$ hours. A random sample of 10 batteries resulted in the following data: 535, 541, 562, 551, 573, 528, 565, 548, 543, and 567 hours. The 95% two-sided confidence interval on the mean battery life is

- (A) [525.1, 560.4]
- (B) [535.8, 566.8]
- (C) [528.0, 573.0]
- (D) [545.3, 557.3]

CONTRIBUTOR

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