
TEST YOUR KNOWLEDGE: Estimation

1. The VanDelay Company manufactures scanners. You have been asked to construct a confidence interval (CIE) that can be used to estimate the population mean life. You take a random sample of 81 scanners and find the sample mean life to be 8.50 years with a sample standard deviation of 2.70 years. Construct the following confidence interval estimators (CIE). You may use the values from the Z distribution since n is quite large.

(a) Construct an 82% CIE _____

(b) Construct a 90% CIE _____

(c) Construct a 95% CIE _____

(d) Construct a 99% CIE _____