

HOMework: STATISTICAL INFERENCE
Hypothesis Tests and Confidence Intervals Using the Z Distribution

PROBLEM 1:

A company manufactures batteries for watches. A random sample of 144 batteries is taken and the sample mean life is 5.5 years with a standard deviation of 0.6 years. If you were constructing a 99% two-sided confidence interval estimate, the lower limit would be _____.

PROBLEM 2:

A company wishes to determine if the average salary of its clerks is really \$340. The company researcher takes a sample of 64 clerks and finds that $\bar{X} = \$300$ and $s = \$80$.

a) Test at $\alpha = 0.05$.

b) Construct a 95% CIE of μ