Mock Quiz

Researchers are interested in the mean age of a certain population. A random sample of 10 individuals drawn from the population of interest has a mean of 27. Assuming that the population is approximately normally distributed with variance 20 and mean is 30

1. What is the point estimate of population mean?

Sample mean = 27

1. Z Distribution or T distribution & why?

Z distribution coz Standard deviation of population known

1. Develop 95% upper confidence interval

29.77

1. Develop 95% lower confidence interval

24.23

1. Is it reasonable to have 20 of population mean?

NO, COZ NOT ON THE RANGE

1. Using 5% level of significance what will be the critical value 1.96
2. What will be the test value? -2.12
3. Write your decision (accept / reject)

REJECT H0

1. Type of error and the probability?

TYPE ERROR 1 (APLHA)

10)What is the sample size if allowable error is 5

4

1. what is the standard error?

1.4

12) range of confidence level

0 - 1