

Marks: 25

Imtiaz Kamal

Page 1 of 2

significance test was conducted to see whether the sample data provides evidence that the proportion of left-handed individuals in the Bangladeshi population exceeds 10%. The obtained test statistic was 3.70, with a corresponding p-value of 0.0001. Moreover, a 99% confidence interval is calculated to estimate the proportion of individuals in Bangladesh that exhibit left-handedness, yielding a range of (0.103, 0.119). Please consider the following assertions: 1) The data suggests that a proportion above 10% of the Bangladeshi population is characterized as left-handed. 2) The data presented in the sample indicates that the prevalence of left-handed individuals in Bangladesh exceeds the expected proportion of 10%. Evaluate both statements and decide which of these two leads to the more appropriate conclusion? Justify your answer based on the significance test and confidence interval results.		
---	--	--