

8. Q.Q. A car company believes that the 1. of citizens in city ABC that owns a vehicle is 60% or less. A sales manager disagrees with this. He conducted a hypothesis testing surveying 250 residents A found that 170 residents responded 'yes' to owning a vehicle. 1) State the Null 4 Alternate hypothesis. ii). At a 10% significance level, is there enough evidence to support the idea that vehicle owners in ABC city's GOKOT loss? Sol. B. Po \$0.6. :. 80=1-Po >> 80=0.4. n=250. x=170. L=0.1. S1: Ho: Po ≤ 60% or 0.6 H1: 18 Po > 60%. Sz: 20.1. One tail test. S3: Decission Boundary (Rule). Zu=-1.280 on 45. :. Zx =+1:18-on RHS. S4: Calculate test stats. where, P = 2/n >> 170/250 =>P = 0.68. 2) Zest = 0.68-0.6 2) Zest = 0.08 => Zest = 2.589. : Ztest = 2.589 > 1.28. ... Reject Ho.

What is the value of the 99 percentile? 243,4,5,5,5,6,7,8,8,8,8,9,9,10,11,11,12. Index = Percentile x(n+1) => Index = 99 x (0+1) => Index = 20.79. .. Value at 99 percentile la lalue a = 12 : no other value present after 20th position.

8. S. In left & Right showed data, what is the relationship by mean, median & mode? Draw the graph to represent the same Mean, Median & Sol. 19. Mean Mode Ceft skewed distribution Mean Right skewed distribution