

In a quent test of the CAT Exam, the population standard deviation is known to be 100. A sample of 25 test token has a mean of 520. Construct on for It about the mean! is the first on board from the same of the same be so the Ans-J= 100, n= 25, 7= 520, c.1 = 80% Q = 1-0.80 it the marks with the wife out M.O.R = \$20.20. LOG = 20.10 = 1-0.10 = 0.90 5>1.282 L.7 = 72 - 2 d/2 2 ot 1 = 520 - 1.282 × 100 = 520 - 1.282 × 100 20 = 494.36 Rejett 7 + 2 x 2 x 59 = 520 + 1.282 × 100 494.36 \$45.6 y - 520 + 1.282 X 20 V25 = 545.64

(3) A compelieres that the parcentage of citizens in City ABC that own a vehicle is 60% on less. A sales manger disgree with this. He controlled a hypothesis teoling surveying 250 resident & Found 170 resident Responded yes to owning a Vericle. of state the null of orternative hypothesis 3) At a 10 y. significance level, is these trough in ADO TO Supposed the Hea that vehicle owner in ABC city is boy. Dess M=601. 1n=250, x=170, x=0.10p HO = UL 60% H, = 4 > 604. Accepted 90% 1, (by. 1.645 0.68 1- Po = 0.40 Po = 0.60, 90 = 0.68 - 0.60 0.60 y 0.40 250 The muse hypothesis reselved because 2 volume is too, 2.59 os greated then 1.645 certh 90%,

what is the value of the 99 percentore Dopoet = {2,2,3,4,5,5,6,7,8,8,8,8,8,9,9,10,11,11,11/14 Ans = 99 K(19+1) = 49 ×20 = 24.75 y A19801 Approximuse 25th insex Volue 12,000 come in the 99 percentiles Ost In lest & right-skiewed data, what is the relation believen mean, median & made ! Draw the grouph to represent the some. Melion Median Ans model , mean rest skewed De Right skewed mode > median> meun men > medion > mode