

488ignment 9.2 In a quant test of the CAT exam, the population standard deviation is known to be 100. A sample of 125 test taken has a mean of 520, construct an 80%. CI about the mean. Ans 0=100 N=25 CI:801. K:0.2 whi with daugger 5th 520 1/1/9 Acceptypothesis Z-score table

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z-score table Z 2/2 = Z (0.2) = Z0. = 1.39 xo.1 reject 494.2 520 545.8 boint arimate + margin of eros 文士 スペノタ 丁か lower fence: si- Zx, 0/5m 520-1.20 × 100 = (4.94.2) Highertence = 520 + 1.29 × 100 - 5(545.8)

4 ye idnes ent 9.3 A car believe that the percentage of citizens in city ABC that town own a vehicle is 60% or less. A sales manager disagnee with this. He conducting a hypothesis testing surveying 250 residents and found that 170 residents respond to ges owning a vehicle.

O state the null of alternate hypothesis 6) At a 104. significance value, is there emough evidence to support the idea that rehicle owner in ABC town is 601.00 legs. And: Ho! P. & 601. null hypothesis Hi. Po > 60% alternate hypothesis 7=250 X=170 P= 7 = 170 = 0.68 90=1-P0=1-100=014=401. a to we want of atmost of the X=0.1 1-0.1:0.9 2-score hable -1.29 reject oil
hypothesse -1.29 Z-test= \(\hat{\rho} - \rho\_0 \) \(\frac{0.68-0.60}{250}\) (2.587-1.29) Frenun 2.58 pothesis

Assignment. git what is the value of the 99 percentile? 2.2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,11,11,12 ANSE value = Percentile x (n+1) 99 x (20+1) 39 x 21 = 20.79 - index

Assignment 3.5 In left & right - Skewed data, what is the relationship between mean, median to mode? Draw the graph to represent the same. mode left mode mear median median moder medians mean > median > mode Sdue to positive 2 due to -ve SKew mean all median mode