

Assignment = 3

Q In the Quant test of CAT exam the population Standard deviation is known to be 100. A sample of 25 test taken has a mean of 520 · Construct a 98 1: CI about 180]. => c=100, n=25 -52=520 (T=95, CDgo 2 = Significant = 1 - C.I 2= 1-COI 2 - 95% 1 = 0.2 Point Setimete + margin of error Point Estimale + margin x + 2/2 50 = 1 / a + 2/2 50 Z=0.2 = Z=0.1 2 20.05 2-0.025 = 1-0.025 =1-01 =0.9 = 0.975 2 table = 1.29 to 21able = 1.96 Lower Fence = 52 - 222 5 lower Fence 520 - 1.96100 = 480.8 52

Fage 165 2

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and the few of the Marie

Higher Fence 5 & + Z12 0 = 2 - Z1 = J2 = 520 + 1.31 x20 = 520 - 1.29 100 = 559.2 2 520 - 25.8 400 - 49402

* Higher Fence = 5 + Z2, 5

= 520 + 1029 100

= 545.8



	100 K Employer, 500 data, 300 xl, 2001
00	CI > 95
*>	J = 100K = 300 500
*	Significe = 1 - CT = 1 - 95
	= 0.05 = 15 + 7 may 13
4	Point Estimate + margin of corror
	51 + ZL 5 Z Vn
	Z=0.05 = 0.025
	= 1-0.025 - 0.975
	Ztable = 1.96
	Lower Fence = I - Zz or
	\$60
	= 300 - 196 100,000 \[\sqrt{500}
	= 300 ~ 1.90 \00,000
	22.360
	= 300 136 +4472.27
	= 360 - 8765.64

lower Fence = -8465.64

Higher Fence = 2+ 21 =

= 300 + 1.96 100,000 (So)

Higherfen = 9065.64

A 5:100K 5=200 0=500

>> Signife = 1-CI

- 0.05

> Point Estimate + margin of cor

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2:0:025

2:0.975

7 table = 1.96

loover Fene = $\overline{\chi} - Z = \overline{\zeta}$

200 - 1.96 100000 Jeon

= 200 - 8765.64

Caver = - 8565.64

Highe Fence 2 ST + 25 5

2 200 + 1016 100,000 V25

= 8365064

Point Stimute + manger of em

35010 = 5

Meller Sid 15