

medium mode ". Mean L Median L Mode ie. Mode > median > Mean 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. n = 20 Ascending order: - 22 2,2,3,4,5,5,5,6,7,8, 8, 8, 8, 9, 9, 10, 11, 11, 12. $P(n) = \frac{x}{100} \times (n+1)$ P(31) = 49 × (20+1) $P(99) = \frac{99}{100} \times 21$ P(99) = 20.79+) Index position : 20typosition is ie. 19th percentile is T21

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Pege No. 5 Higher Fence = Point Esimate + Margin of EY808 - 520 + 1.29 × 100 \[\sqrt{25} \] Higher fence = 545.8 0.1 0.1 545.8 494.2 520 A car company believes that the Perc-2.5 -entage of citizens in city ABC that cours a vehicle is 60% or less. A soles manager disagrees with this. He conducted a hypothesis surveiging 250 recidents of found that 170 residents responded yes to owning a vehide. State the null and alternate hypothesis. At a 10% significance level, is there enough evidence to support the idea

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	that vehicle owner in ABC city is 60% or less.
AND	M=10=60, N=250, X=170
	Null hypothesis: Ho: Po = 60 Alternate hypothesis: Hi: Po ≠ 60
	$\hat{\rho} = \frac{M}{N} = \frac{170}{250}$ $\hat{\rho} = 0.68$
	Vo=1-Po=1-0.60
(b)	$d = 0.10 (-I - = 0.90)$ $\frac{d}{2} = 0.10 = 0.05$
	1-0.05=0.95 2-score of 0.95 is 1.65
	2= P-Po-
6	$= \frac{0.68 - 0.60}{0.60 \times 0.40}$ 250

