Appled this 2 2012 Exom Paper
$4A U = 6 = 93$ $100018 = \sum (x_1 - x_1)^2 (94 - 93)^2 + (85 - 93)^2 + (94 - 93)^2 + (8698)^2 + (8698)^2 + (94 - 93)^2 + (8698)^2 $
200 200 56 156 - 254.
x ± t(0.05,5) \(\sqrt{10}\)
93-6743 93+6.743 (86.257 , 94.74) 154.CI
$\frac{1}{8} \frac{n-15^{2}}{y^{2}(056,n-1)} \frac{(n-1)5^{3}}{x^{2}(1-0565,n-1)} \frac{4(\sqrt{56})}{6\cdot655} \frac{4(\sqrt{56})}{0\cdot554}$
1) (4. 211, 24.031). (33. 76, 404.332)
C. Digit vole 104 4 104
5 86 4 96 6 90 2 85 1 94 3 99
D-Uk bookstrap for Smulatur
- Colculate averagelinear and s.t. for each simple
Thy interval will generally be wide as it

number / lager, this increal will be lagar G-Again, re-do boot strop Sompling - For each simply calculate the proportion of days vectuals 795 and direct by 6 - Row the duty
- Choose 25 percentle and 975 percentle to create 95%. CT.
95% of duta lies between 25, and 975 in penentle 5 A. Probability of posing the lest is P, thus probability or failure is 1-p as there are only two outcomes success or fullive P(pos) histre) = p P(pos) Sejond tire) = (1 faille, 1 poss) = p(1-p) P(pos) 3rd tre) = (2 fams, tempor = p(1-p)² Success on com brol = p(1-p)ⁿ⁻¹ B 1 2 1 4 3 1 1 2 3 1

P p(1p) p p(1-p)3 p(1-p)2 p p(1-p) p(1p)2 p L = 17 pp(1-p)p (1-p)3 p(1-p)2 p p p(1-p)p(1-p)2p (Log(L) = Log p10 (1-p)4 Log p'° + Log (1-p) 1

10 Log (p) + 9 Log (1-p) $\frac{10\log(p)}{dp} + \frac{9}{1-p} = 0 \Rightarrow 0 + mox = 0$ $\frac{10}{dp} = \frac{10}{1-p} + \frac{9}{1-p} = 0 \Rightarrow 0 + mox = 0$ $\frac{10}{p} = \frac{19}{1-p} + \frac{10}{1-p} = 9p$ $10 = \frac{10}{19} = \frac{9p}{19}$ $10 = \frac{10}{19} = \frac{10}{19}$

		- 5
	Applied Arbidality 2 txam Dapor 2012	
3:0	U Ho: p=05 vs H, p≠05. 52 for german = (1-12)	
14	tented = 0.5 - 19 (1-10)	
	Control - 03 17	6m
Brita.	Mn. 14 1030 1000 - 1/10	
	0. Y 10 0 101 101 200 3 10 1 10 10 2 10 10 2	
-	= 2.762	
	K C FIAMI	
	No evidence against the -> full to rejet	
-	It could be reasoned that the slate is normally distributed	
t	of most of 60 Will 110 W411 220 OF CC.	
	there seem to be no outlies einer.	1
-	For small single sizes that they will be appropriate as by the central	
	limit hoom	
16	From the bookstrop, the 95% CT is (25 prontile, 975m percent)	
F	18.777 6.41.41	
	The value of o's lies wirning the rate of	
	Ho Gur P = 05.	
^	$Voly = \frac{E - \{ax + b\}^2}{6(1 + ab)^2} + \frac{E\{y^2\}}{6(1 + ab)^2}$	
Air	$E[(ax+b)^2] + E[(ax+b)]^2$	
	23 CF2 7 CF37 - CF-72+CF	
THE REAL PROPERTY.	2 [[v2] i 2 ab [[] + b - (a - [L]) + 2 a g -]	
TORE	- 02 E[x2] - a2 E[X]	
	= a2 Vor [x]	
15 15 15 15		





