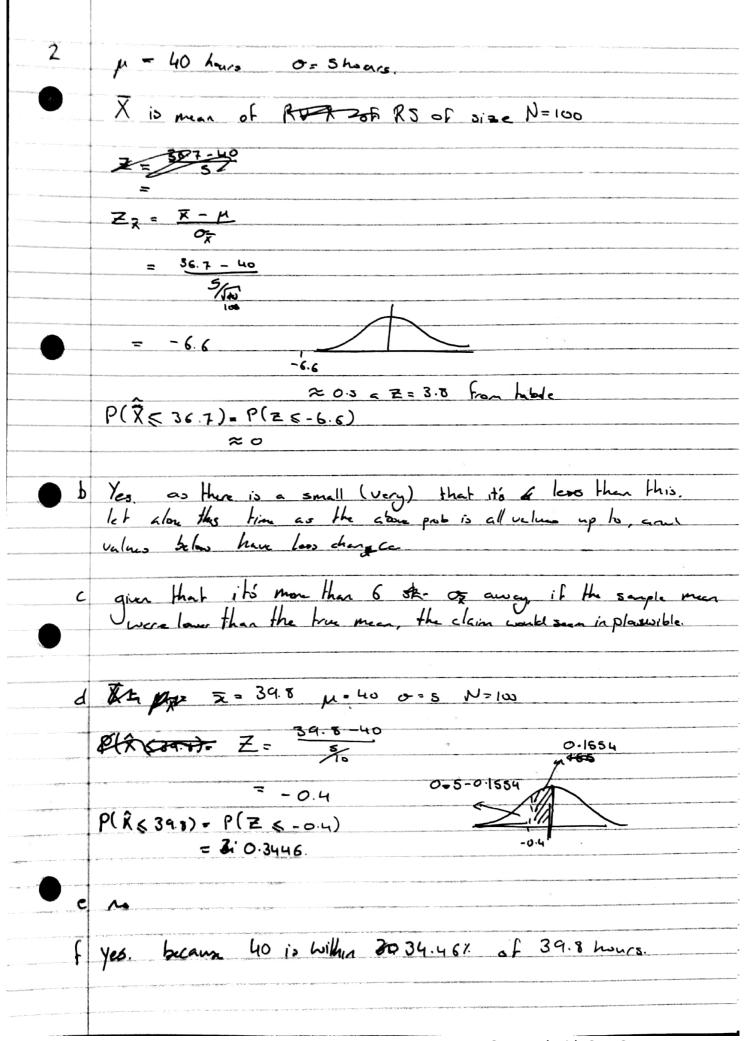
	Ecen 321 Ass 7 Joshua Benfell
	,
· e	Concentration = 30 /ml
a	poisson distribution
	λ = 2 × 3o
	² 60
	wormal approximation of poisson (1) when 1>10
	4.
	$\times \sim \mathcal{N}(\lambda, \lambda^2)$ $\mu = 1 = 60$
0	= JA = 160
	= J60 = 2 J15
	<u>አ</u> ኒ 50
	~ . W
	Z = \frac{\pi - \mu}{0}
	2 SO-60
	2 - \(\sigma \)
	J From table = 0.4015
	z -1.29099.
	P(X > 50) = P(Z > -1.29099)
	= 0.4015 + 0.5 Z=-1.29
	2 0.9015.
Ь	Λ = 10
	p = P(x > 50) = 0 9015
	D(V s) 41 10! . 0.9015 . (1.0.9015)
	P(X = 9) = 9! (10-9)! . 0.9015 . (1-0.9015)
	= 0.38737
	P(x 7,9) = P(x=9), P(x0) as there are independent events so can add
A. April and Department of the property of the part of	P(X=10) = 10!
	= 0.9015 P(X7/9) = 0.3874 + 0.3545
	= 0.35463 = 0.7419
	Soonned with ComSoonner

Scanned with CamScanner

	Final
1	Find N=100 P(X > 90) pW
- Silvery - Andrew Company of the Silvery Com	
	p = P(x > 50)
4 - 478-fee-deal-residue disuprishen rigordin kon-februarea in annocial (sub-hul	= 0.9015
- Milliagen australia (september 1900) des des Clares (september 1900) de se des Clares (september 1900) de se	
	Np = 4025 1(1-p) = 100x(1-0.9015)
- and policies any possibility follows and in the complete months of a following a design	= 90.15 = 9.85.
	> 10 and quite > 10 teletone. So can't use
	normal dist approximation.
	take to find P(X 7/90) = P(X = 90) + P(X = 91)+ + P(X = 99) + P(X = 100)
	1 · N=k N=100
	$P(X = k) = \frac{N!}{k!(N-k)!} P(1-p) $ $k = [90, 91, 92, 93, 94, 95, 96, $
	97,99,100]
	·
	P(X=90) = 0.1317
	$P(\chi = 91) = 0.1325$
-	P(x = 92) = 0.11859
	P(x=93) = 0.0934
	P(x=qu) = 0.06363
	P(x = 95) = 0.03678
	P(x=96) = 0.0175
- North and an analysis	P(X=97) = 0.00662
	P(x: 91) = 0.00185
	$\rho(x:qq) = 0.000343$
	P(x = 100)= 0.00003137
	$\mathcal{O}(V \supset \mathcal{O}_{C}) = \mathcal{O}(C)$
- Control of the Cont	P(x7,90)=0.6029.
and the second s	
V-19-2-17-18-18-18	
and the second s	
The second secon	
er om remaining against agaile ag	
and the same of th	
again (e.) in magain again an a gainn an a	



3 a	Z de = 1.96
The later is the same place that I have a property of the same place that I have been placed that I have been place that I have been placed that I have been	C1 = 00.4750x2
	2095
	= 95%. Cu
	2 13 7. 224
Ь	Za/2 = 2.17
	Cl = 4 0.4850 xx
	= 0.97
	2 9 T /.
۷	7 -1.2.
	$Z_{\alpha/2} = 1.23$ $C1 = 0.3497 \times 2$
	= 0.7994
	= 79.94 %
d	Za/2 = 3.28
	C1 = O.4995x2
	= 0.999
	= 99.9
4	N= 50
	µ = 654.1
	O = 311.7
a	95% CI is x ± 1.96 0g
	There is a second of the secon
	= 654.1 + 1.96, 311.7 - 654.1 + 1.96, 550
	= 654.1 ± 86.40
	(567.70, 740.4050)
)
Ь	$Z_{\kappa/2} = 2.33$
	9 8% C1 = 6541 ± 2.33 × 150
	(551. 1839, 756.81)

728 psy. 6 800 = E = 0.608 Z = \$581.6-654.1 = -1.64 Z = 726 · 6 - 654.1 2 1.64 C1 = 2 × 4495 2 0.849 = 89.9%. CI for 95%.CI Za= 1.96 erspirati a E= Za/2 Ox = 149.3 = 150 samples. N= (1.33 × 311.7) e Z=2.33 = 211.