Name: AOUN-HAIDER 1D: FAZI-BSF-133

Mon (Tue Wed Thu Fri Sat Assignment: 04 Statistics & probability Theory (6.11) 6 = 15, N = 200 a) P(2>224) Z, = M-M = 224-200 => 1.6 = p(2>1.6) = 1-p(2<1.6) = 1-0.9452 => 0.0548 b) P(19/22/209)\$ Adding continuely factor P (191.5< 2 < 202.5) 21= 191.5-200 = -0.56 2= 208.7-200 = 0.36 P(-0.56< 2 < 0.56) = P(2<0.56) - P(2<-0.56) = 0.7257-0.2743 = 0.4514

Tue Wed Thu Pri Sat Date:_/_	/20
(c) K=230, N=1000, H=?	
P(2>230)	
1- P(2<230)	-
2320	
2, -230-200 = 2	
= 1-p( Z < 2) = 1-0.9772	
= 0.0228	
N=np = (1000)(0.0228) = 22.8	
d) 2 = -0.67, x=?	
2=7-1	
2 - 2 - 11	
82 = N-U	1
82+M=2	-
N = (-0.67)(15)+200	-
TN = 189.95	-
(6.15)	
a) M=24, 6=3.8	
1 hr = 30 min	
012 > 0.5)= P(2>30)	
1- P(2<30)	

e [Wed Thu Fri   Sat]	Date://20
20-24	1 1.52
2= 30-20	= 1.50
P(2>1.58	3)
1- P(2<	1.58) = 0.0571
242	9 => 0.0571
	01:00 = 15min
P(2>15	
3.8	-2.37
= 1-0.	0089 = 0.9911
c) p(2>2	25)
25-24	= 0.26
3.3	
P(2>0.	26) = 1-0.6026
- 0.3	3974
d) N=?	5.15-> 1.04
X = 6/2	+ M = (3-8) (1.04) +24
- 27.	95
e) n=3, x=2	P=0.0571
b(2,3,0.0	$(571) = (3)(0.057i)^{2}$
=> 0.0092	(0.9429)
the state of the s	

. (9)	)
Mon Tue Wed Thu Fri Sat (6. 6)	-
M= 49.61, 6=0.08	7
a) p(a4.52 22 a4.7)	1
2, = 99.5-99.61 -1.375	`
22 = 09.7-99.61 = 1.125	
= P(2<1.125)-P(2<-0.875)	
= 0.8697-0.084	
= 0.7852	
b) P(2<2k)=6.05	
P(2<1.645)	
x = (1.645) (0.08) + 99.61	
= 99.79	
(6.25)	
n=100, p=11.=> 0.01	
$a) P(X \leq 0)$	
U=NP= (0.01)(100)=1	
d = 1/19 - (0.01)(100)(0.99) = 0.995	

		-
	2= 0.5-1 = -0.503	v
	0.995	ż
	P(24-0.503) = 0.3085	•
		5
	b) P=0.05	
•		
	M = (100)(0.05) = 5	3
	d = Inpq = 1 (100) (005) (0.95)	3
	= 2.179	7
	2 = 0.5 -5 = -2.06	0
		<u>ت</u>
37	P(X <0) ~ P(X < -2.06)	<u> </u>
-	= 0.0197	<del> </del>
	(6.36)	<u> </u>
	N = 200	y
	seals=197	٣٠
	$P(X \ge 3)$	0
	2 = 2-4 3-0-5-4	
	d d'npa	
	= -1.5	U
	1 (200) (0.02) (0.98)	ان
	= -1-5/p.97 = 1-P(XZ3)	<i>D</i>
	= 1 - P(2 > -0.76) = 0.2236	

Wed Thu Fri Sat Date:_/_	/20
Wed Thu Fri Sat (6.37)	
M = 170, 6 = 30	
a) P(X > 230)	
2 = 230 - 170, = 2	
30	
P(2 >2) = 1- P(2<2)	
- 0.022-8	
b) n=300, P=0.0228	n>30
: Binomial approximation	
b(y, 300, 0.028)	
U= (300)(0.0228) = 6.84 C= 1(300)(0.0288)(1-0.0228)	
6= 1(3.0)(3.0200) (120.0200)	
2 = 8-0.5-6.84 = 0.26	
2.5854	
P(XZZ) = P(270.26)	
D 0.3974	
Miller and the second of the second	