

	A	B	C	D	E	F	G	H	I	J	K	L
1	In a sample of 250, number of smoker found is 75,Construct											
2	i)90% C.I. for Population Proportion											
3	ii)Construct C.I. such that Population Proportion certainly lie.											
4												
5	Solution: Here we have											
6	Sample size(n)=		250									
7	Number of smokers(x)=		75									
8	Sample propn.(p)=		0.3	=D7/D6								
9	q=		0.7	=1-D8								
10	S.E.(p)=		0.028983	=SQRT((D8*D9)/D6)								
11												
12	For i)95% confidence interval for population mean											
13	Here, C.I. (1- $\alpha$ )=		0.9									
14			$\alpha$ =	0.1	=1-D13							
15			Z. $\alpha$ =	1.644854	=NORM.S.INV(1-D14/2)							
16	Now, Lower limit=		0.252328	=D8-D10*D15								
17	Upper limit=		0.347672	=D8+D10*D15								
18												
19	For i)Certainly lie we should take											
20	Z. $\alpha$ =		3									
21	Now, Lower limit=		0.213052	=D8-D10*C20								
22	Upper limit=		0.386948	=D8+D10*C20								