

	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								