wo-sample z-interval test with pooled proportion						
NO. UD	COUNT of id	AVERAGE of conversion	STDEV of conversion			
group						1
AB	24343	0.03923099043	0.1941480575		pooled sample proportion (p-pooled)	
	24600	0.04630081301	0.2101400552		p1*n1	0.00167847688
Grand Total	48943	0.04278446356	0.2023728984		p2*n2	0 00552400244
	NI-4-4'	Walion			n1+n2	0.08553180344
Calculation	Notation	Value			p-pooled	0.019624009
sample size (control)	n1	24343				
sample size (treatment)	n2	24600				
sample proportion (control)	p1 bar	0.03923099043				
sample proportion (treatment)	p2 bar	0.04630081301				
pooled sample proportion	р	0.04278446356				
standard error_pooled	SE_pooled	0.001828488403				
z - statistic	Z	-3.866484779			pooled standard error	
degrees of freedom	df	24342		r	p1(1-p1)	0.03769191982
p-value	pval	0.0001107022292		S	r/n1	0.000001548367
				u	p2(1-p2)	0.04415704772
Conclusion: p = 0.0001, statistically significant. We reject the null hypothesis that there is no difference in the user conversion rate between the control and treatment.				v	u/n2	0.000001795001
The numbers show a big difference between the treatment and control groups. More people in the treatment group did something compared to the control group.				w	s+v	0.000003343369
				SE pooled	sqrt(w)	0.001828488403
Critical value	CV	1.644853625				
Margin of error		0.003007595779				
Confidence Interval - Lower Bound	L_CI	0.04329321723				
Confidence Interval - Upper Bound	U_CI	0.04930840879				
Confidence Width	Cw	0.006015191557				
Conclusion - The 95% confidence interval, with a margin of error of 0.003, suggests the actual value we're estimating is likely between 0.043 and 0.049. The small confidence width of 0.006 shows we're pretty certain about this range, giving us confidence in our estimate. This implies a high degree of confidence that the true population parameter falls within this range.						