Untitled

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## R Markdown

#one sample  
prop.test(x=63,n=640,p=0.1726,alternative = 'less',correct = FALSE)

##   
## 1-sample proportions test without continuity correction  
##   
## data: 63 out of 640, null probability 0.1726  
## X-squared = 24.649, df = 1, p-value = 3.44e-07  
## alternative hypothesis: true p is less than 0.1726  
## 95 percent confidence interval:  
## 0.0000000 0.1195303  
## sample estimates:  
## p   
## 0.0984375

z\_cri = qnorm(0.01,0,1) # left tailed  
  
print(z\_cri)

## [1] -2.326348

#we will get only x - squared = 24.649 , for z va;ue take sqaure root  
z = sqrt(24.649)  
print(z)

## [1] 4.964776

## two sample   
prop.test(x=c(180,296),n=c(900,1600),alternative = "two.sided",correct = FALSE)

##   
## 2-sample test for equality of proportions without continuity  
## correction  
##   
## data: c(180, 296) out of c(900, 1600)  
## X-squared = 0.84075, df = 1, p-value = 0.3592  
## alternative hypothesis: two.sided  
## 95 percent confidence interval:  
## -0.01732528 0.04732528  
## sample estimates:  
## prop 1 prop 2   
## 0.200 0.185

z\_cri = qnorm(0.975,0,1) # left tailed  
print(z\_cri)

## [1] 1.959964

# we will get only x-sqaured = 0.84075 , for z value take square root  
z=sqrt(0.84075)  
z

## [1] 0.9169242