Examen2.R

Usuario

2024-11-11

set.seed(42)  
n <- 30  
altura <- rnorm(n, mean = 170, sd= 10) #altura en cm  
peso <- 0.5 \* altura + rnorm(n,mean = 0, sd =5) #peso en kg, con algo de ruido  
t.test(altura, peso)

##   
## Welch Two Sample t-test  
##   
## data: altura and peso  
## t = 32.409, df = 46.663, p-value < 2.2e-16  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 80.61611 91.28884  
## sample estimates:  
## mean of x mean of y   
## 170.68587 84.73339

cor.test(altura,peso)

##   
## Pearson's product-moment correlation  
##   
## data: altura and peso  
## t = 5.3576, df = 28, p-value = 1.044e-05  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## 0.4722623 0.8530828  
## sample estimates:  
## cor   
## 0.7114793