Unit9Homework

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science = x math = y

library(readr)  
TEST\_DATA <- read\_csv("TEST DATA.csv")

## Parsed with column specification:  
## cols(  
## `Student ID` = col\_integer(),  
## math = col\_integer(),  
## read = col\_integer(),  
## write = col\_integer(),  
## science = col\_integer(),  
## socst = col\_integer()  
## )

test\_data<-lm(math~science,data = TEST\_DATA)  
qt(0.995, 198)

## [1] 2.600887

abs(qt(0.01/2, 198))

## [1] 2.600887

summary(test\_data)

##   
## Call:  
## lm(formula = math ~ science, data = TEST\_DATA)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -26.0899 -5.0044 0.4671 4.6886 19.2336   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 21.70019 2.75429 7.879 2.15e-13 \*\*\*  
## science 0.59681 0.05218 11.437 < 2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 7.288 on 198 degrees of freedom  
## Multiple R-squared: 0.3978, Adjusted R-squared: 0.3948   
## F-statistic: 130.8 on 1 and 198 DF, p-value: < 2.2e-16

confint(test\_data, level = .99)

## 0.5 % 99.5 %  
## (Intercept) 14.536591 28.8637921  
## science 0.461094 0.7325341