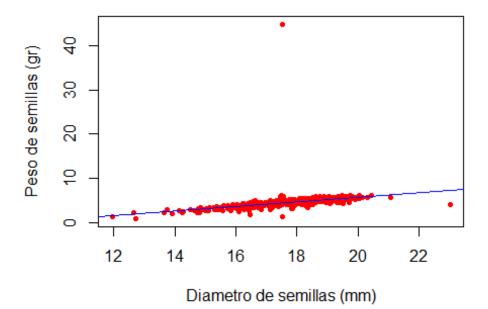
semana-15.R

Usuario

2022-05-25

```
#MZZ
#04/05/10
#semana 15
semillass <-read.csv("semillas.csv" , header = TRUE)</pre>
#Plot de diametro vs peso en gramos
plot(semillass$Diametro_mm, semillass$Peso_gr,pch=20, xlab = "Diametro de
semillas (mm)", ylab = "Peso de semillas (gr)", col = "red")
#Funcion lm funcion que me ayuda a determinar alfa y beta de la regresion
sem.lm <- lm(semillass$Peso gr ~ semillass$Diametro mm)</pre>
summary(sem.lm)
##
## lm(formula = semillass$Peso_gr ~ semillass$Diametro_mm)
##
## Residuals:
              1Q Median
      Min
                            3Q
                                  Max
## -3.187 -0.269 -0.047 0.188 40.419
##
## Coefficients:
                        Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                        -4.75894 1.00267 -4.746 2.6e-06 ***
                                     0.05665 9.280 < 2e-16 ***
## semillass$Diametro_mm 0.52570
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 1.712 on 597 degrees of freedom
## Multiple R-squared: 0.1261, Adjusted R-squared: 0.1246
## F-statistic: 86.13 on 1 and 597 DF, p-value: < 2.2e-16
semillass$yprima <- round(-4.93375+ 0.53178* semillass$Diametro_mm,2)</pre>
abline(sem.lm, col = "blue")
```



```
plot(semillass$Diametro_mm, semillass$Peso_gr,pch=20, xlab = "Diametro de
semillas (mm)", ylab = "Peso de semillas (gr)", col = "red")
text(19, 2, "Y=-4.93+ 0.532*x")
text(19, 1.5, "Regresion lineal")
text(19, 1.1, "r^2=0.69*")
```

