

```
#Pruebas de t - 1 cola #03/03/2025
```

```
costal <- c(87.7, 80.01, 77.28, 78.76, 81.52, 74.2, 80.71, 79.5, 77.87, 81.94, 80.7, 82.32, 75.78, 80.19, 83.91, 79.4, 77.52, 77.62, 81.4, 74.89, 82.95, 73.59, 77.92, 77.18, 79.83, 81.23, 79.28, 78.44, 79.01, 80.47, 76.23, 78.89, 77.14, 69.94, 78.54, 79.7, 82.45, 77.29, 75.52, 77.21, 75.99, 81.94, 80.41, 77.7) mean(costal) sd(costal) var(costal) length(costal) plot(density(costal), main = "Gráfica de densidad costales", xlab = "Peso costales (kg)", ylab = "Densidad", col = "blue", lwd = 2) #Agregar valores de media observada y peso declarado de costales abline(v= mean(costal), col = "green", lwd = 2, lty = 2) abline(v= 80, col="red", lwd = 2, lty = 2) text(80.5, 0.06, "media teórica", col="red")
```

```
hist(costal) abline (h=8, col="red")
```

```
t.test(costal, mu = 80, alternative = "less")
```

```
t.test(costal, mu=80)
```

```
View(sleep) boxplot(sleep$extra ~ sleep$group) shapiro.test(sleep$extra) bartlett.test(sleep$extra, sleep$group) t.test (sleep$extra ~ sleep$group, var.equal = T)
```

```
airquality summary(airquality)
```

```
aire <- data(airquality) mean(airquality$Temp)
```

```
mayo <-subset(airquality$Temp, airquality$Month == 5) mean (mayo) t.test(mayo, mu=mean(airquality$Temp), alternative = "l")
```

```
aire$Cent <- (airquality$Temp - 32)/1.8 boxplot(aire$Cent ~ airquality$Month, col = "indianred")
```

```
shapiro.test(aire$Cent) shapiro.test(mayo) bartlett.test(aire$Cent ~ airquality$Month)
```

```
boxplot(airquality$Ozone ~ airquality$Month) boxplot(airquality$Wind ~ airquality$Month) bartlett.test(airquality$Wind ~ airquality$Month)
```

```
wind.aov <- aov(airquality$Wind ~ airquality$Month) summary(wind.aov)
```

```
airquality$Month <- as.factor(airquality$Month) wind.aov <- aov(airquality$Wind ~ airquality$Month) summary(wind.aov) TukeyHSD(wind.aov)
```

```
cor.test(airquality$Wind, airquality$Temp) plot(airquality$Wind, airquality$Temp, pch=19)
```

```
plot(airquality$Temp, airquality$Solar.R, pch=20) cor.test(airquality$Temp, airquality$Solar.R)
```

```
plot(airquality$Temp, airquality$Ozone, pch=19) cor.test(airquality$Temp, airquality$Ozone)
```

```
boxplot(airquality$Ozone ~ airquality$Month) 0.69^2
```