

R UK

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matem=c(10, 18, 12, 7, 6, 13, 20, 11, 12, 9, 10, 4, 14, 10, 18, 11, 19,16, 8)
mean(matem)
var(matem)
median(matem)
quantile(matem)
boxplot(matem)

term=c(19.9, 19.8, 19.4, 20.2, 20.3, 20.1, 19.9, 19.7, 19.4, 19.2, 19.8, 19.9)
term2=c(19.9, 19.8, 19.7, 20.2, 20, 20.1, 19.9, 19.7, 19.4, 19.3, 19.8, 19.8)
term4=c(20, 19.4, 19.3, 20, 20.4, 20, 20.5, 20.5, 19.3, 19.3, 19.4, 19.5)
t.test(term, mu=20)
t.test(term, mu=20, alternative='less')
wilcox.test(term, mu=20, correct=T, exact=F)
t.test(term2, mu=20)
t.test(term, mu=20, alternative='less')
shapiro.test(term4)

Hmet=c(10, 11, 15, 7, 6, 8, 10, 12, 15, 17, 11, 10)
Hmet2=c(10, 11, 15, 7, 3, 8, 10, 12, 15, 20, 11, 10)
Hmet3=c(10, 11, 12, 7, 9, 8, 10, 12, 15, 16, 11, 11)
Hmet4=c(9, 15, 16, 9, 5, 9, 4, 4, 16, 16, 15, 14)
kontr=c(9, 4, 3, 4, 2, 4, 10, 14, 13)
kontr3=c(9, 2, 3, 2, 2, 4, 10, 14, 17)
t.test(Hmet, kontr, mu=0, var.equal=T)
wilcox.test(Hmet, kontr, mu=0, correct=T, exact=F)
shapiro.test(Hmet4)

A=c(10, 5, 12, 7, 6, 13, 3)
B=c(11, 12, 9, 10, 4, 14, 10)
C=c(15, 12, 19, 16, 8)
C2=c(15, 12, 19, 16, 8, 15, 13)
C3=c(15, 15, 19, 16, 5)
oddel=c(10, 5, 12, 7, 6, 13, 3, 11, 12, 9, 10, 4, 14, 10, 15, 12, 19, 16, 8)
grup=factor(c(1,1,1,1,1,1,1,2,2,2,2,2,2,3,3,3,3,3))
vysledek<-aov(oddel~grup)
summary(vysledek)
kruskal.test(oddel~grup)

soubor<-read.delim(„clipboard“)
attach(soubor)
cor.test(srazky, vynosy)
cor.test(srazky, vynosy, method=„spearman“)
lm(vynosy~srazky)
vysledek<-lm(vynosy~srazky)
summary(vysledek)
plot(srazky~vynosy, main=„regrese“)
vysledek<-lm(vynosy~srazky)
abline(vysledek)
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matice=rbind(c(10, 13, 28), c(15, 31, 23))  
chisq.test(matice)  
chisq.test(x=c(12, 8, 25, 17, 21, 17), p=c(1/6, 1/6, 1/6, 1/6, 1/6, 1/6))  
matice2=rbind(c(8, 2), c(6, 11))  
fisher.test(matice2)
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