S100<- sample(x,100,replace=T)

mean(sample(x,100,replace=T))

y20<-c()

for (i in 1:100) { y20[i]=mean(sample(x,20,replace=T))}

y50<-c()

for (i in 1:100) { y50[i]=mean(sample(x,50,replace=T))}

y100<-c()

for (i in 1:100) { y100[i]=mean(sample(x,100,replace=T))}

y200<-c()

for (i in 1:100) { y200[i]=mean(sample(x,200,replace=T))}

par(mfrow=c(2,2))

hist(y20,probability=T)

hist(y50,probability=T)

hist(y100,probability=T)

hist(y200,probability=T)

hist(y20,probability=T,ylim=c(0,.8),xlim=c(0,10))

hist(y50,probability=T,ylim=c(0,.8),xlim=c(0,10))

hist(y100,probability=T,ylim=c(0,.8),xlim=c(0,10))

hist(y200,probability=T,ylim=c(0,.8),xlim=c(0,10))