adv.stats.mod3.R

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#we are going to use mean(), median(), and mode() for our sets  
#first we assign our sets  
set1<- c(10,2,3,2,4,2,5)  
set2<- c(20,12,13,12,14,12,15)  
  
#central tendenacy   
#for set1  
mean(set1)

## [1] 4

median(set1)

## [1] 3

mode(set1)

## [1] "numeric"

#for set2  
mean(set2)

## [1] 14

median(set2)

## [1] 13

mode(set2)

## [1] "numeric"

#Variation   
#for set1  
range(set1)

## [1] 2 10

quantile(set1)

## 0% 25% 50% 75% 100%   
## 2.0 2.0 3.0 4.5 10.0

var(set1)

## [1] 8.333333

sd(set1)

## [1] 2.886751

#for set2  
range(set2)

## [1] 12 20

quantile(set2)

## 0% 25% 50% 75% 100%   
## 12.0 12.0 13.0 14.5 20.0

var(set2)

## [1] 8.333333

sd(set2)

## [1] 2.886751

#we see that both modes for each set is a numeric   
mode(set1+set2)

## [1] "numeric"

#the variance for both sets is 8.33333  
var(set1)

## [1] 8.333333

var(set2)

## [1] 8.333333

#lastly, the standard deviation for both sets is 2.886751  
sd(set1)

## [1] 2.886751

sd(set2)

## [1] 2.886751