**Stat 276 Project**

Hind Ali

I selected my data by posting two questions in my WhatsApp relative group asking them to provide me with their age in year and weight in pounds.

The R code for Data 1

# Stat 276 Project

# Hind Ali

# x represents age in year

# Data 1

x<- c(40, 38, 39, 62, 38, 32, 25, 22, 28, 27, 51, 49, 21, 32, 28, 44, 31, 37, 29, 23, 39)

n<-length(x)

meanx<-mean(x)

varx<-var(x)

sdx<-sd(x)

sm<-summary(x)

qx<-quantile(x,c(0.25,0.50,0.75))

minmax<-c(min(x),max(x))

par(mfrow = c(2,1)) # partitioning graphics in the arrays

stem(x)

hist(x,breaks=5,freq=FALSE,main="The ages of my relatives in my WhatsApp group")

boxplot(x,horizontal=TRUE, main="The ages of my relatives in my WhatsApp group")

list(Summary=sm,Mean=meanx,Var=varx,SD=sdx,Quartiles=qx)

The calculation for Data 1

x<- c(40, 38, 39, 62, 38, 32, 25, 22, 28, 27, 51, 49, 21, 32, 28, 44, 31, 37, 29, 23, 39)

The decimal point is 1 digit(s) to the right of the |

2 | 12357889

3 | 12278899

4 | 049

5 | 1

6 | 2

> hist(x,breaks=5,freq=FALSE,main="The ages of my relatives in my WhatsApp group")

> boxplot(x,horizontal=TRUE, main="The ages of my relatives in my WhatsApp group")

> list(Summary=sm,Mean=meanx,Var=varx,SD=sdx,Quartiles=qx)

$Summary

Min. 1st Qu. Median Mean 3rd Qu. Max.

21 28 32 35 39 62

$Mean

[1] 35

$Var

[1] 109.1

$SD

[1] 10.44509

$Quartiles

25% 50% 75%

28 32 39

>

>

The R code for Data 2

# Data 2:

# The weights, in pounds, of 21 randomly selected relative adults in my WhatsApp group are given below:

# x represents the data of The weights in pounds

x<- c(120, 165, 187, 143, 119, 132, 163, 127, 156, 179, 159, 180, 202, 183, 114, 146, 151, 168, 173, 144, 197)

n<-length(x)

meanx<-mean(x)

varx<-var(x)

sdx<-sd(x)

sm<-summary(x)

qx<-quantile(x,c(0.25,0.50,0.75))

minmax<-c(min(x),max(x))

par(mfrow = c(2,1)) # partitioning graphics in the arrays

stem(x)

hist(x,breaks=5,freq=FALSE,main="The weights in pounds")

boxplot(x,horizontal=TRUE, main="The weights in pounds")

list(Summary=sm,Mean=meanx,Var=varx,SD=sdx,Quartiles=qx)

The calculation for Data 2

+ > n<-length(x)

> meanx<-mean(x)

> varx<-var(x)

> sdx<-sd(x)

> sm<-summary(x)

> qx<-quantile(x,c(0.25,0.50,0.75))

> minmax<-c(min(x),max(x))

> par(mfrow = c(2,1)) # partitioning graphics in the arrays

> stem(x)

The decimal point is 1 digit(s) to the right of the |

10 | 49

12 | 072

14 | 346169

16 | 35839

18 | 0377

20 | 2

> hist(x,breaks=5,freq=FALSE,main="The weights in pounds")

> boxplot(x,horizontal=TRUE, main="The weights in pounds")

> list(Summary=sm,Mean=meanx,Var=varx,SD=sdx,Quartiles=qx)

$Summary

Min. 1st Qu. Median Mean 3rd Qu. Max.

114.0 143.0 159.0 157.5 179.0 202.0

$Mean

[1] 157.5238

$Var

[1] 669.9619

$SD

[1] 25.88362

$Quartiles

25% 50% 75%

143 159 179

>

Histogram and Box-plot for my Data



