**Class 1:**
**Review: displaying data using excel and R.**

Ex1: Color of eyes. (Brown=17, Hazel=6, Blue=4, Green =2)

Ex2: Last digits of your cell number. (Bins) or monthly cell usage.

 Histograms – boxplots 5 number summary – stem and leaf

Ex: 3.29, 3.36 (2way tables)

Ex3: Mean and median (1,2,3,4,5,6,7,8,9,10, 100\*,1000\*)

Ex3: 4.16  paper consumption (on-line)

Ex: 6.31, 6.43, 6.46, 6.49

**Problem 3.15:**
Code for R:
phenomenon <- c("Psychic healing","ESP","Ghosts","Astrology","Channeling")
percent<-c(54,50,38,28,15,)
names(percent)<-phenomenon
barplot(percent)
barplot(percent/100)
pie(percent)

**Problem 3.18**
Code for R:
medals<- scan()
29
25
24
23
22
19
14
14
11
11
11
9
9
9
4
3
3
2
2
2
1
1
1
1
1
1

Read 26 items

names(medals)<-c( "Germany","USA","Canada","Austria","Russia","Norway","Sweeden","Switzerland","SKorea","Italy","China","France","Netherlands","Findland","CzechR","Croatia","Australia","Poland","Ukraine","Japan","Belarus","Bulgaria","England","Slovakia","Latvia")

What is a good way to display this data?

barplot(medals)
pie(medals)
table(medals)
counts<-table(medals)
pie(counts)
barplot(counts)
stem(medals)
hist(medals)
hist(medals,probability=T)
rug(jitter(medals))
boxplot(medals)
summary(medals)

Example with what you can do with R:

count<-c(28,46,58,20,31,64,149,316,103)
age<-c(2.5,7.5,13,16.5,17.5,19,22.5,44.5,70.5)
age.acident<-rep(age,count)

brk<-c(0,5,10,16,17,18,20,25,60,80)
hist(age.acident,breaks=brk)
hist(age.acident,breaks=brk,probability=T)
boxplot(age.acident)
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