**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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