HW 4

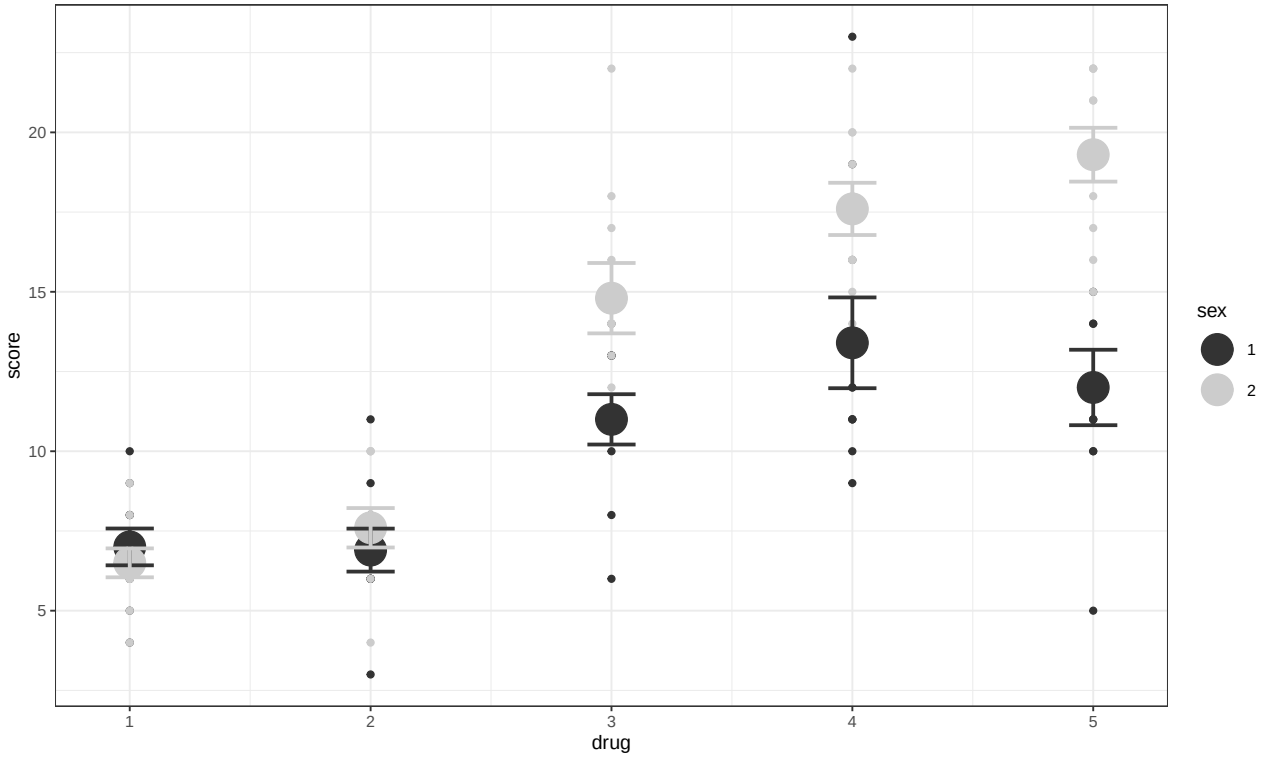
Adon Rosen

Date: 2019-11-16

Question 1

Sex	1	2	3	4	5	Means
Male	7	6.9	11	13.4	12	10.06
Female	6.5	7.6	14.8	17.6	19.3	13.16
Means	6.75	7.25	12.9	15.5	15.65	11.61

Question 2



Question 6

```
in.data$sex <- factor(in.data$sex)
in.data$drug <- factor(in.data$drug)
out.model <- aov(score ~ sex * factor(drug), data=in.data)
summary(out.model)
```

```
                Df Sum Sq Mean Sq F value   Pr(>F)
```

```
sex               1  240.2   240.2  29.936 3.98e-07 ***
factor(drug)      4 1514.9   378.7  47.191  < 2e-16 ***
sex:factor(drug)  4  190.3    47.6   5.928 0.000279 ***
Residuals        90  722.3     8.0
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Question 7

```r
run.1 <- t.test(score ~ sex, in.data[which(in.data$drug==1),])
run.2 <- t.test(score ~ sex, in.data[which(in.data$drug==2),])
run.3 <- t.test(score ~ sex, in.data[which(in.data$drug==3),])
run.4 <- t.test(score ~ sex, in.data[which(in.data$drug==4),])
run.5 <- t.test(score ~ sex, in.data[which(in.data$drug==5),])
```