Selected R output for Sales/Packaging Data (Exercise 9, p. 15)

> ch1\_ex9=read.table("ch1exercise9.txt", header=TRUE)

> ch1\_ex9

store package sales average.weekly.sales

1 1 old 1406 2888

2 2 old 1134 2416

3 3 old 1124 2684

    

15 15 old 899 2112

16 1 new 1351 2888

17 2 new 1135 2416

    

28 13 new 1418 3076

29 14 new 1033 1904

30 15 new 1389 2112

> oldsales<-ch1\_ex9[1:15,3]

> mean(oldsales)

[1] 925.9333

> newsales<-ch1\_ex9[16:30,3]

> mean(newsales)

[1] 1075.6

> mean(oldsales-newsales)

[1] -149.6667

> sd(oldsales-newsales)

[1] 321.4966

> boxplot(oldsales-newsales, ylab="Sales ($)",main="Difference in Sales (Old - New)") 

> t.test(oldsales,newsales,paired=TRUE)

Paired t-test

t = -1.803, df = 14, p-value = 0.09295

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

-327.70558 28.37224

sample estimates:

mean of the differences

-149.6667