44.

a.

The hypotheses test is

H0 : u1-u2 = 0

Ha: u1-u2 <> 0

Based on 10%, t\* is between -1.68 to 1.68



I do not reject H0, t value is between the area, so, there are no difference the two plans.

44) (a) (-3pt)Need to give the output. (-2pt) Need to write the decision including "We do not have sufficient evidence at 10% level of significance to suggest that the average sales of the two approaches are significantly different".

b.

Since there are no differences, it is fine to select either one.

45.

a.

The hypotheses test is

H0 : u0 - u1 > 0

Ha: u0 – u1 < 0





Based on 5%, t\* is between -1.98 to 1.98



It is not between the area, so I reject H0, as a result, it proves that male’s salary is lager then female’s.

b.

This cannot truly prove the discrimination, but they need to change the salary for female.

45) (b) (-2pt) The decision should also include " We have sufficient evidence at 5% level of significance to suggest that the average starting salary of males is greater than that of females. "

c.

Like the educational level, how many years an employee works here.

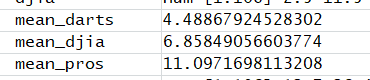
46.

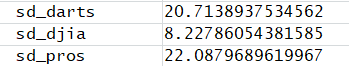
a.

Hypotheses test

H0 = u1 - u2 <= 0

Ha = u1 – u2 > 0





T\* = qt(1-0.05/2,df=212-2)





So, fail to reject H0.

46)(a)(-2pt)The hypothesis should be like "H0: µ\_pro= µ\_darts Vs. Ha: µ\_pro ≠ µ\_darts. (-2pt)The conclusion should be " We have sufficient evidence at 5% level of significance to suggest that there is a significant difference between the average returns for experts and the average returns from the randomly selected stocks. " (b)(-4pt) Same as (a).(-2pt) (c) and (d) not answered much

b.

Hypotheses test

H0 = u1 – u3 <= 0

Ha = u1 – u3 > 0



So, fail to reject H0.

c.

The average return is smaller than the other two’s. So, I trend to not believe experts. (???)

d.

The stability of a stock, like the deviation of returns. For example, even the average of Dow Jones’ return is small, but the deviation is small, so it is safer.