Problem 3 (10 pts)

A company conducted promotion A at 8 stores and promotion B at 10 stores. Sales averaged 21.5 (standard deviation of 3.4) ten thousand yen at stores that carried out promotion A, and 18.8 (standard deviation of 2.5) ten thousand yen at stores that carried out promotion B.

Assuming that the sales are normally distributed among the stores that carry out the same promotion, test whether there is a difference in the effects of promotion A and B at the significance level of 5%. Answer the null hypothesis, alternative hypothesis, p-value (up to 3 decimal places), and conclusion respectively.

If necessary, you can use dm_mid3_sample.ipynb.

null hypothesis(H0):

(none)

alternative hypothesis(H1):

(none)

p value

Round off the 4th decimal place and answer up to the 3rd decimal place.

conclusion:

(none)

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