

Quiz (3)

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in a study , the interest was in the effect of three methods of irrigation on the fresh weight of lettuce plants . the study were applied on two lettuce varieties , dark green and great lakes. We measure the weights as follow:

irrigation methods

variety	1	2	3
dark green	8.7	9.5	15.8
	7.3	9.1	13
	8	8.3	14.6
great lakes	4.2	6.7	14.5
	2.3	1.9	14.4
	3.5	7	15

Test if there is interaction between irrigation methods and varieties. use

$\alpha = 0.01$

1) Hypothesis

2) Statistic and value

3) p_value=

4) decision rule:

5) can we complete the tests

**if we can complete then test whether there is a difference in varieties of lettuce on the average fresh weight of lettuce use $\alpha = 0.05$

1) Hypothesis

2) Statistic and value

3) p_value=

4) decision rule: