1. Which of the following about ANOVA is NOT true?
2. ANOVA is short for “Analysis of Variance”
3. We can estimate how much variation among group means ought to be present from sampling error alone if the null hypothesis is true.
4. ANOVA lets us determine whether there is more variance among the sample means than we would expect by chance alone.
5. ANOVA is to identify outliers.

Answer Q2-Q5 using the following table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source | Degree of Freedom | Sum of squares | Mean squares | F |
| Treatment | 3 | 75.75 | Q2 | Q4 |
| Error | 16 | 47.2 | Q3 |  |
| Total | 19 |  |  |  |

1. What is the missing information for Q2 in the above table?
2. 25.25
3. 2.95
4. 8.5593
5. 0.0013
6. What is the missing information for Q3 in the above table?
7. 25.25
8. 2.95
9. 8.5593
10. 0.0013
11. What is the missing information for Q4 in the above table?
12. 25.25
13. 2.95
14. 8.5593
15. 0.0013
16. What is the P-value for the above ANOVA table?
17. pf(8.5593, 3,16)
18. pf(8.5593,16,3)
19. 1- pf(8.5593, 3,16)
20. 1- pf(8.5593, 3,19)
21. pf(8.5593, 3,19)