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Marvin Johnson

MATH – 1312

Homework 5

4/11/2023

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59)

SS between = 26

SS within = 441

F Statistic = 0.2653

Table

Description automatically generated with medium confidence

61)

H0 = µ­1 = µ­2 = µ­3 = µ­4 = µ­5

All µ­i  are not equal

Graphical user interface, table

Description automatically generated

65)

|  |  |  |
| --- | --- | --- |
| **working-class** | **professional (middle incomes)** | **professional (wealthy)** |
| 17.8 | 16.5 | 8.5 |
| 26.7 | 17.4 | 6.3 |
| 49.4 | 22 | 4.6 |
| 9.4 | 7.4 | 12.6 |
| 65.4 | 9.4 | 11 |
| 47.1 | 2.1 | 28.6 |
| 19.5 | 6.4 | 15.4 |
| 51.2 | 13.9 | 9.3 |

α =0.05

F statistic = 9.099

Tests:

1. Null and Alternative hypotheses

H0 = µ­1 = µ­2 = µ­3

Ha : At least one µ­I is significantly different

1. Rejection region

R = {F : F > Fc = 3.467}

1. Test statistic

F = 9.099

1. Decision

P-value approach:

P = 0.0014

P < α

* Reject