12. To compare **five** different formulations of fuel, **seven** different armored vehicles drove

the identical route once with each fuel type. For each vehicle/fuel-type combination a

fuel cost-of-operation value was determined. These numbers were analyzed with

standard **Two-Factor ANOVA** yielding the table which is partially filled in below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source | df | Sums of Squares | Mean Squares | Fs | Fα = 0.05 |
| Armored Vehicle |  |  |  |  |  |
| Fuel Types |  |  | 12 |  |  |
| Exp. Error |  |  | 5 |  |  |
| Total |  | 192 |  |  |  |

A) Fill in the missing entries.

B) Making the normal assumptions, would you accept the hypothesis that there is no

significant difference between the fuel cost of operations for each **vehicle type**, with

α = 0.05? **Why?**