In comparing levels of neuroticism based on the job people have, you find that doctors average 60.5, lawyers average 62.4, and teachers average 67.8. Your ANOVA source table:

ANOVA

| Neuroticism |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | :---: |
|  | Sum of Squares | af | Mean Square | F | p |
| Between Groups | 433.378 | 2 | 216.689 | 17.785 | $<.001$ |
| Within Groups | 511.733 | 42 | 12.184 |  |  |
| Total | 945.111 | 44 |  |  |  |

If there are 15 people in each group, which population means are different because of the job?

ANSWER:

$$
\begin{aligned}
& Q_{D_{J} L}=\frac{60.5-62.4}{\sqrt{\frac{12.18}{15}}}=\frac{-1.9}{.90}=2.11 \\
& Q_{D_{J} T}=\frac{60.5-67.8}{.90}=8.11 \\
& Q_{L_{J} T}=\frac{62.4-67.8}{.90}=6.0
\end{aligned}
$$

$$
K=3
$$

$$
d f=42
$$

