Biology 4605/7220/ST4581 Name _____
Quiz 8. 23 November 1993

Data on Hudson River striped bass growth rates (change in length from mid July to mid-August) were analyzed for adjudicatory hearings held in 1978. Growth G was analyzed by multiple regression, in relation to population density D, rate of rise in water temperature ΔT, and a standardized measure of river flow F.

symbol	means
X	effects of X
Y.X	effects of Y given X
Z.Y X and X	effects of Z, given Y

Write a regression model corresponding to the following ANOVA table.

_____

Complete the following ANOVA table.

Under significance put ns if not significant at $\alpha = 5\%$
Under significance put yes if significant at $\alpha = 5\%$

SOURCE	DF	SEQ SS	MS	F	Significant ?
D	1	88.07	_____	_____	_____
ΔT.D	1	116.57	_____	_____	_____
F.D ΔT	1	12.10	_____	_____	_____
Error	7	89.25	12.75		
Total	10	305.98			

```
MTB > invcdf .95;
SUBC> f 1 7.
    0.9500    5.5915
```