1. W.W. Daniel (*Biostatistics*. John Wiley, 1995 p 409) gives data for temperature in laboratory animals (T = deg C) at 10 successive time (t = hours after inoculation).

Using the symbols provided, write a general linear model for the relation of temperature to time after inoculation.

2. Complete the ANOVA table

SOURCE	DF	SS	MS	F
Time	__	8.4160	_____	_____
Error	__	_____	_____	
Total	9	9.2890		

3. Here is a plot of residuals versus fitted values for this regression.
Comment on whether a linear model is appropriate for this data.

```
        _
    0.35+                        *       *
        _                   *
res     _
        _                            *     *
        _
    0.00+                                       *
        _
        _                                           *
        _          *
        _
   -0.35+                                               *
        _
        _
        _      *
        _
   -0.70+
        --------+---------+---------+---------+---------+--------fits
            39.60     40.20     40.80     41.40     42.00
```