```
data new;
      input TRT minutes;
cards;
0 4.52
0 4.79
0 4.04
0 9.01
0 10.67
0 9.06
0 10.21
1 11.11
1 8.11
1 10.26
1 11.53
1 11.52
1 10.52
run;
title1 'Comparing Time to Headache Relief between Two Treatments';
proc ttest data=new;
      class trt;
      var minutes;
run;
proc reg data=new;
      model minutes=trt/p;
run;
OUTPUT:
```

Comparing Time to Headache Relief between Two Treatments

The TTEST Procedure Variable: minutes

Folded F

6

TRT	N	Mean	Std Dev	Std Err	Minimum	Maximum	
0	7	7.4714	2.8953	1.0943	4.0400	10.6700	
1	6	10.5083	1.2840	0.5242	8.1100	11.5300	
Diff (1-2)		-3.0369	2.3069	1.2834			
TRT	Metho	d	Mean	95% CL	Mean	Std Dev	95% CL Std Dev
0			7.4714	4.7937	10.1491	2.8953	1.8657 6.3757
1			10.5083	9.1609	11.8558	1.2840	0.8015 3.1491
Diff (1-2)	Poole	d	-3.0369	-5.8618	-0.2121	2.3069	1.6342 3.9169
Diff (1-2)	Satte	rthwaite	-3.0369	-5.8050	-0.2688		
Method	Va	riances	DF t	: Value P	r > t		
Pooled	Eq	ual	11	-2.37	0.0374		
Satterthwaite	e Un	equal	8.5303	-2.50	0.0351		
	Equal	ity of Var	iances				
Method 1	Num DF	Den DF	F Value	Pr > F			

0.0949

5.08

5

Comparing Time to Headache Relief between Two Treatments

The REG Procedure Model: MODEL1

Dependent Variable: minutes

Number of Observations Read 13 Number of Observations Used 13

Analysis of Variance

		Sum of	Mean		
Source	DF	Squares	Square	F Value	Pr > F
Model	1	29.79671	29.79671	5.60	0.0374
Error	11	58.54017	5.32183		
Corrected Total	12	88.33688			
Root MSE	2.30691	R-Square	0.3373		
Dependent Mean	8.87308	Adj R-Sq	0.2771		
Coeff Var	25.99899				

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	7.47143	0.87193	8.57	<.0001
TRT	1	3.03690	1.28345	2.37	0.0374

Output Statistics

Output Statistics

	Dependent	Predicted	
0bs	Variable	Value	Residual
1	4.5200	7.4714	-2.9514
2	4.7900	7.4714	-2.6814
3	4.0400	7.4714	-3.4314
4	9.0100	7.4714	1.5386
5	10.6700	7.4714	3.1986
6	9.0600	7.4714	1.5886
7	10.2100	7.4714	2.7386
8	11.1100	10.5083	0.6017
9	8.1100	10.5083	-2.3983
10	10.2600	10.5083	-0.2483
11	11.5300	10.5083	1.0217
12	11.5200	10.5083	1.0117
13	10.5200	10.5083	0.0117

Sum of Residuals 0
Sum of Squared Residuals 58.54017
Predicted Residual SS (PRESS) 80.32996

```
data new;
       input TRT minutes;
cards;
-1 4.52
-1 4.79
-1 4.04
-1 9.01
-1 10.67
-19.06
-1 10.21
1 11.11
1 8.11
1 10.26
1 11.53
1 11.52
1 10.52
run;
title1 'Comparing Time to Headache Relief between Two Treatments';
proc ttest data=new;
       class trt;
       var minutes;
run;
proc req data=new lineprinter;
       model minutes=trt/p;
run;
OUTPUT:
Comparing Time to Headache Relief between Two Treatments
The TTEST Procedure
Variable: minutes
TRT
             N
                      Mean
                              Std Dev
                                         Std Err
                                                     Minimum
                                                                Maximum
- 1
              7
                    7.4714
                               2.8953
                                          1.0943
                                                      4.0400
                                                                10.6700
                   10.5083
                               1.2840
                                          0.5242
                                                      8.1100
                                                                11.5300
Diff (1-2)
                   -3.0369
                               2.3069
                                          1.2834
TRT
             Method
                                Mean
                                          95% CL Mean
                                                            Std Dev
                                                                        95% CL Std Dev
- 1
                              7.4714
                                         4.7937 10.1491
                                                             2.8953
                                                                        1.8657
                                                                                 6.3757
                              10.5083
                                         9.1609 11.8558
                                                             1.2840
                                                                        0.8015
                                                                                 3.1491
Diff (1-2)
             Pooled
                             -3.0369
                                         -5.8618 -0.2121
                                                             2.3069
                                                                        1.6342
                                                                                 3.9169
Diff (1-2)
             Satterthwaite
                             -3.0369
                                         -5.8050 -0.2688
Method
               Variances
                               DF
                                     t Value
                                               Pr > |t|
                                       -2.37
                                                 0.0374
Pooled
               Equal
                               11
                           8.5303
                                                 0.0351
Satterthwaite
               Unequal
                                       -2.50
             Equality of Variances
Method
           Num DF
                    Den DF
                             F Value
                                       Pr > F
Folded F
               6
                         5
                                5.08
                                       0.0949
```

Comparing Time to Headache Relief between Two Treatments

The REG Procedure Model: MODEL1

Dependent Variable: minutes

Number of Observations Read 13 Number of Observations Used 13

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	29.79671	29.79671	5.60	0.0374
Error	11	58.54017	5.32183		
Corrected Total	12	88.33688			
Root MSE	2.30691	R-Square	0.3373		
Dependent Mean Coeff Var	8.87308 25.99899	Adj R-Sq	0.2771		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	8.98988	0.64172	14.01	<.0001
TRT	1	1.51845	0.64172	2.37	0.0374

Output Statistics

	Dependent	Predicted	
0bs	Variable	Value	Residual
1	4.5200	7.4714	-2.9514
2	4.7900	7.4714	-2.6814
3	4.0400	7.4714	-3.4314
4	9.0100	7.4714	1.5386
5	10.6700	7.4714	3.1986
6	9.0600	7.4714	1.5886
7	10.2100	7.4714	2.7386
8	11.1100	10.5083	0.6017
9	8.1100	10.5083	-2.3983
10	10.2600	10.5083	-0.2483
11	11.5300	10.5083	1.0217
12	11.5200	10.5083	1.0117
13	10.5200	10.5083	0.0117

Sum of Residuals 0
Sum of Squared Residuals 58.54017
Predicted Residual SS (PRESS) 80.32996