data lesson3;

input method $ em;

datalines;

|  |  |
| --- | --- |
| m1 | 5.95 |
| m1 | 4.78 |
| m1 | 4.28 |
| m1 | 5.04 |
| m1 | 4.56 |
| m2 | 10.61 |
| m2 | 13.13 |
| m2 | 10.51 |
| m2 | 9.26 |
| m2 | 11.04 |
| m3 | 17 |
| m3 | 20.88 |
| m3 | 20.06 |
| m3 | 15.25 |
| m3 | 23.74 |
| m4 | 7.51 |
| m4 | 6.82 |
| m4 | 6.23 |
| m4 | 6.49 |
| m4 | 5.91 |

;

/\*

proc print data= lesson3;

title 'Raw Data for Lesson 3'; run;

proc summary data=lesson1;

class method;

var em;

output out=output1 mean=mean stderr=se;

run;

proc print data=output1;

title 'Summary Output for Lesson 3';

run;

\*/

/\* Check Settings: From Main toolbar, choose

Tools > Options > Preferences > Results

make sure HTML box is checked and listing box is not checked \*/

/\* I want to enable the Output Delivery System Graphics package

because I will want to produce some diagnostic plots \*/

ods graphics on;

/\* ANOVA: We will be using Proc Mixed for most of our ANOVA work. The mixed

procedure has several options for how the solutions

for ANOVA are reached. I am specifying the 'Method=type3'

to use ordinary least squares rather than a maximum likelihood method

for this example. This will produce the conventional (ANOVA table) output. \*/

proc mixed data=lesson3 method=type3 plots=all;

class method;

model em=method;

store abc123; /\*Stores results for the next procedure (abc123 is name I give)\*/

title 'ANOVA of tablet compaction Data';

run;

ods html style=statistical sge=on;

proc plm restore=abc123;

lsmeans method / adjust=tukey plot=meanplot cl lines;

/\* The lsmeans statement here prints out the model fit means, performs the Tukey

mean comparisons, and plots the data. \*/

ods exclude diffplot;

run; title; run;