Figure 1.3b

```
ESTIMATES FOR Y

CONSTANT

 PARAMETER          COEFF.      STD. ERR.       T-VALUE      SIG. OF T    LOWER .95 CL    UPPER .95 CL

       1    7.0000000000          .70053       9.99245           .000         5.47368         8.52632
CAT

 PARAMETER          COEFF.      STD. ERR.       T-VALUE      SIG. OF T    LOWER .95 CL    UPPER .95 CL

       2   -1.0000000000          .70053      -1.42749           .179        -2.52632          .52632
DRUG

 PARAMETER          COEFF.      STD. ERR.       T-VALUE      SIG. OF T    LOWER .95 CL    UPPER .95 CL

       3    0.0                   .99070          0.0           1.000        -2.15854         2.15854
       4   -2.0000000000          .99070      -2.01878           .066        -4.15854          .15854
CAT BY DRUG

 PARAMETER          COEFF.      STD. ERR.       T-VALUE      SIG. OF T    LOWER .95 CL    UPPER .95 CL

       5   -2.0000000000          .99070      -2.01878           .066        -4.15854          .15854
       6    4.0000000000          .99070       4.03756           .002         1.84146         6.15854
```

1.4 Use of the PRINT Subcommand

Additional printed output can be obtained by using the PRINT subcommand. For instance, tests of homogeneity of within-cells variance are produced by specifying

```
MANOVA      Y BY CAT(1,2) DRUG(1,3)/
            PRINT=HOMOGENEITY(BARTLETT,COCHRAN)/
```

The output (Figure 1.4a) includes Bartlett's test and Cochran's test. The significance (P) of both tests is also given.

Figure 1.4a

```
UNIVARIATE HOMOGENEITY OF VARIANCE TESTS

VARIABLE .. Y

     COCHRANS C(2,6) =                    .30189,  P =  .829 (APPROX.)
     BARTLETT-BOX F(5,185) =              .38601,  P =  .858
```

The cell statistics, including the mean, standard deviation, number of observations, and the 95% confidence intervals for the population means can be obtained using

```
MANOVA      Y BY CAT(1,2) DRUG(1,3)/
            PRINT=CELLINFO(MEANS)/
```

The output from the above PRINT subcommand is given in Figure 1.4b.

Figure 1.4b

```
CELL MEANS AND STANDARD DEVIATIONS

VARIABLE .. Y

    FACTOR          CODE                MEAN      STD. DEV.          N   95 PERCENT CONF. INTERVAL

 CAT                   1
  DRUG                 1            4.00000        4.00000          3       -5.93666        13.93666
  DRUG                 2            8.00000        2.00000          3        3.03167        12.96833
  DRUG                 3            6.00000        2.00000          3        1.03167        10.96833

 CAT                   2
  DRUG                 1           10.00000        4.00000          3         .06334        19.93666
  DRUG                 2            2.00000        2.00000          3       -2.96833         6.96833
  DRUG                 3           12.00000        3.00000          3        4.54751        19.45249

FOR ENTIRE SAMPLE                   7.00000        4.31141         18        4.85599         9.14401
```