ANOVA programs for Timex/Sinclair 1000, 1500, and ZX81 microcomputers

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Eleven statistical programs for Timex/Sinclair 1000, 1500, and ZX81 microcomputers are listed and described in a 167-page book. The programs can run relatively large data sets using less than 16K of memory. Accurate calculations are performed with difference formulas and provisional mean formulas.

Description. Programs (written in BASIC) are included for (1) an independent-groups test, (2) a correlated measures t test (a Pearson product-moment correlation coefficient is also calculated), (3) an unequal- or equal-n-per-group independent-groups one-way ANOVA, (4) an equal-n randomized block ANOVA, (5) a randomized-block ANOVA that has provisions for estimating missing scores, (6) an unequal- or equal-n-per-subgroup independent-groups two-way ANOVA, (7) a split-plot factorial two-way ANOVA with equal or unequal n on the independent-

groups factor and equal n on the repeated-measures factor, (8) an equal-n randomized-block factorial two-factor ANOVA, (9) an unequal- or equal-n-per-subgroup independent-groups three-way ANOVA, (10) a split-plot factorial three-factor ANOVA with repeated measures on one factor and equal or unequal n on the other two factors, and (11) a split-plot factorial three-factor ANOVA with repeated measures on two factors and equal or unequal n on the other factor. All the programs print out the means required for follow-up tests. The programs also present the variances for the smallest unit (group, treatment, subgroup, or cell) calculated by the statistic.

Input. The book has consistent data-entry procedures for all programs. The data-entry procedures make it possible to use the book as a statistical package. All the programs have provisions for correcting data entry after and while the data are entered. A sample set of data and a complete example of entry for the sample data are given for each program.

Output. The programs output to a television screen. Means and variances described above are presented before an ANOVA summary table is presented. A complete example of output is presented for each program. The example of output is for the same data that are used to explain data entry.

Availability. The book is available for \$3.50, including postage and handling, from: Allen H. Wolach, Department of Psychology, Illinois Institute of Technology, Chicago, IL 60616.

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