Some things are changing for the better.

Math comes alive for grade school students.

And they're learning it faster than ever before, according to Mr. William Rybensky, program director for computer-assisted instruction (CAI) at Ravenswood City School District, East Palo Alto, California. In his district, students are averaging 15 months of math progress in just 7 months. And at Willow School (where 400 children now regularly use the HP time-share system) some have finished $1\frac{1}{2}$ years of math in less than three months!

And students really like working with our computer, because they receive immediate recognition for correct answers and avoid the embarrassment of making a mistake in front of the whole class. Teachers also appreciate the system. It gives them up-to-the-minute progress reports on every student and eliminates the need for checking answers. So the teacher has more time to coach slow learners and deal with the "why" questions.

For about 25 cents per student per day, any school district can enjoy the benefits of a Hewlett-Packard system, complete with software based on the Stanford Math Drill and Practice curriculum for grades 1 through 6. This $150,000 system is ready for delivery now, completely field-proven and fully supported.

If you'd like to find out how CAI from Hewlett-Packard can help your school district, just drop us a line.

New ways to bypass the big computer.

Enthusiasm for our 9100 Computing Calculator's capabilities has led to a most rewarding exchange of ideas with its users. A typical letter from a California university professor states in part:

"I do not normally write letters of appreciation to manufacturers of products I use, but my joy in ownership of one of your new 9100A calculators impels me to write you my congratulations and praise for a unique product. The design of this machine seems perfectly matched to the needs of a scientist who is continually confronted with minor problems requiring either the use of tables or the fairly laborious construction of a computer program. All too many pertinent problems are ignored because of the work involved.

"We have our own CCI terminal to our (big computer) which is a blessing for big problems, but a headache for little ones. We have repeatedly found mistakes in our Fortran and PL-1 programs by spot-checking the routines with our 9100A.

"The ease of programming and program editing immediately attracts the novice as well as the expert and the ability to step through a routine is helpful in debugging.

"Your choice of parameters seems particularly felicitous—with sufficient speed to provide accuracy without noticeable delay and all the hard-wired subroutines one needs to do anything."

Users like this have helped us compile libraries of programs for our calculator system. The newest of these relates to applied statistics, consists of over 100 programs, and covers the following: General Statistics; Distribution Functions; Test Statistics; Curve Fitting; Harmonic Analysis; Sampling Theory; Analysis of Variance Operations;
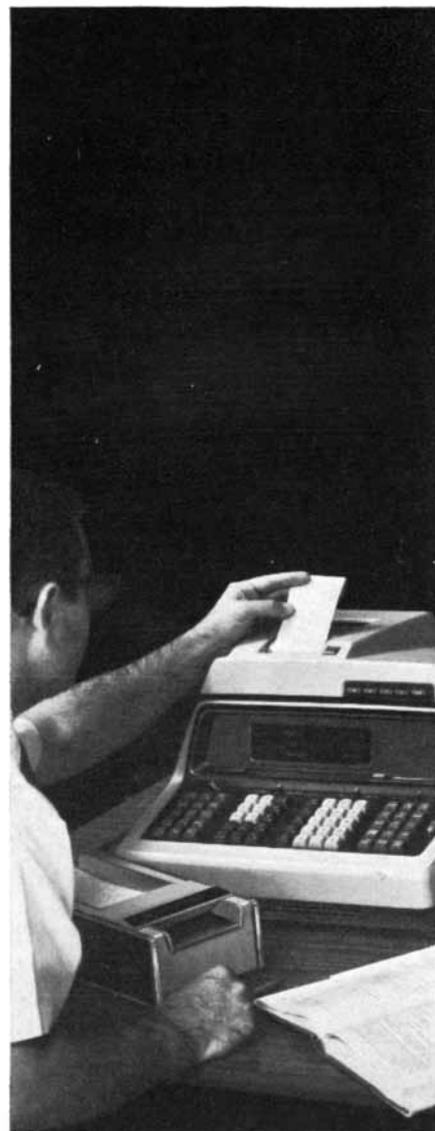
Reliability and Quality Control; and Plotter Programs.

This series of programs on magnetic cards gives you instant access to the calculators so you can spend all your time on creative data interpretation rather than computation. We call it the HP STAT-PAC. Used with the HP 9100 Calculator System, it can help free you from the laborious reduction of statistics and endless computations. Write us if you'd like more information.

Help for companies with noise problems.

Occupational noise exposure and its potential solutions are currently undergoing extensive investigation by government, industrial, legal and medical experts. Last year's enactment

of the Walsh-Healey Act really put teeth in the demands for better industrial noise environment, especially with any firm having Federal contracts of $10,000 or more per year.

If you're one of the people looking for an inexpensive way to measure industrial noise, a new Sound Level Recorder we developed can help you.

It's a simple push-button instrument that accurately measures and records all the noise exposure levels and peak sounds covered by the Walsh-Healey Act. If you need certified documents of performance, we have a Sound Level Calibrator that goes with it.

The Recorder costs $2,200, the Calibrator $285. We'll be happy to send you details on both instruments, plus information on how you can use them to meet Walsh-Healey requirements.

A better way of learning to cope with heart failures.

When caring for cardiac patients, how can a nurse be sure she will recognize a life-threatening arrhythmia? Or effectively defibrillate in the few vital minutes available? Or simply make good electrode connections to assure continuous, accurate monitoring information?

The key, obviously, is the right training. A highly effective training tool is our Arrhythmia Trainer and Torso. With it, nurses and interns quickly learn to recognize individual arrhythmias and the sequences in which they occur. And it duplicates human response to correct and incorrect electrical treatment, so they can practice countershock techniques. It's the kind of training no hospital should be without. The price is just $1750.

This is another example of how Hewlett-Packard technology is helping to change things for the better. More detailed information on any of the above, or any other HP instrument is available by writing to: Hewlett-Packard, 1504 Page Mill Road, Palo Alto, California 94304; Europe: 1217 Meyrin-Geneva, Switzerland.
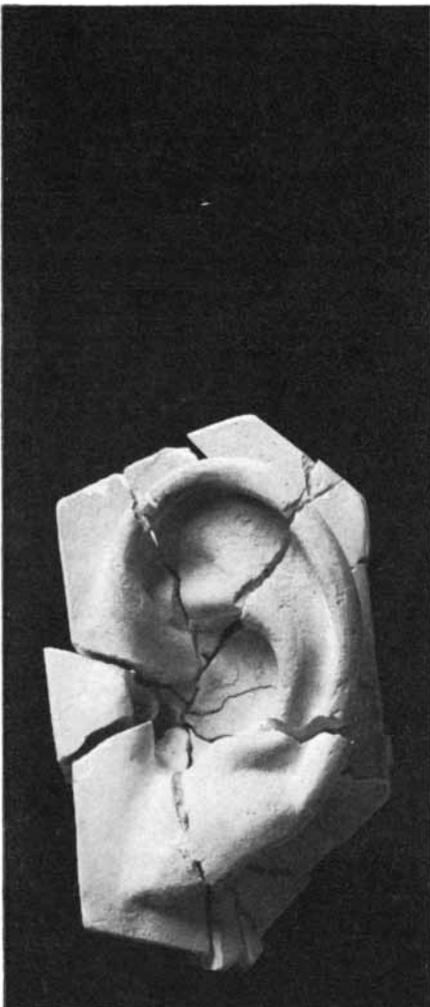
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