

# Faster Way to Learn Arithmetic Is Shown

A new and proved method of teaching arithmetic through which teachers have tripled the pace of student achievement has been demonstrated for Birmingham's top school officials and members of the school board.

The method was developed during the past several years by Dr. Andrew F. Schott, Ph.D., of Marquette University. In January 1954 it was installed in seven elementary and high schools, both public and parochial, in the Milwaukee, Wisconsin, vicinity under the sponsorship of Burroughs Corporation, Detroit.

The tests were reviewed by Marquette University and confirmed by the California Test Bureau. They showed these achievement gains:

- 1.) Fourth, fifth and sixth grades learned at twice the expected rate.
  - 2.) Seventh grade made gains in four months that would normally require nineteen months, or nearly five times the normal rate of progress.
  - 3.) Eighth and ninth grades showed gains in a single semester that would normally require four semesters.
  - 4.) The average achievement gain for all the students tested was fourteen months in one four-month period.
- FOLLOWING the demonstration, Dwight E. Ireland, superintendent of Birmingham schools, commented favorably on the fresh approach to the teaching of arithmetic.
- "Dr. Schott's program has merit in various ways," said Ireland.

adding machine a large quantity of individual figures is no drawback. For the same reason, in a given time, many more problems can be solved.

"However, perhaps the most important in that numbers become a reality rather than abstractions. In teaching arithmetic, that is a vital factor that must be constantly kept in mind."

The method, according to Schott, does not abolish the standard arithmetic teaching techniques, but adds to them. Through the use of a modern version of the ancient abacus and Burroughs "Instructor" adding machine, a student is taken behind the curtain of "black boxes" and "short cuts" of arithmetic. He learns what must actually happen with numbers in order to add, subtract, multiply and divide.

SCHOTT explained that such "short cuts" as the multiplication table and the usual procedure for multiplying two 4-digit numbers represent the most efficient and direct route to the solution of many arithmetic problems.

To a student, however, these and other short cuts are meaningless, boring and difficult to learn. Of themselves, they teach nothing of arithmetic but only the final result is achieved.

With an adding machine, on the other hand, Schott says even a big arithmetic problem can be broken down into all its steps, and each step reasoned and worked. With an

student helpless when working problems only with pencil and paper, Dr. Schott said. When students took two tests, one with the machine and one with pencil and paper only, results were substantially the same.

THE RESULT, according to Schott, is that the fundamentals really sink in. The student learns to do by doing. What once had to be accepted on faith and learned by tedious memorization now comes alive in a meaningful and interesting form.

These teaching tools, Schott told Birmingham educators, make the student bring into the study of arithmetic not only his brain, but his senses of touch, hearing and sight as well. The adding machine too is a grown-up machine used in grown-up jobs.

Altogether, Schott believes, these factors give the student not only a vital learning aid, but also a new and significant motivation in his arithmetic studies.

DR. SCHOTT asserts that the tests measured not only the assimilation of the fundamentals of arithmetic but also improvement in arithmetic reasoning.

"Results of the test clearly indicated that use of the machine does not retard the reasoning process," Dr. Schott said. "In fact, the new method stimulates their ability to think and speeds up the learning process."

Tests also proved that use of the machines does not make the

## Technical Staff Of 'Sabrina Fair'

"Sabrina Fair" will close the current season for the Village Players with performances scheduled for two consecutive weekends beginning April 29.

John Hall has been named stage manager for this production, with scenic designing under the direction of George Green. Dick Brown will have charge of lighting.

Mrs. Granville Ryan, with the assistance of Denis Walker, will be in charge of costumes, while Mrs. Lane Bishop heads the make-up committee.

Properties will be in charge of Mrs. Gordon Love and Mrs. Stephen Manhard.

Handing publicity for the play are Audrey Parks, Dick Nette and Dick Cloonan.

## YMCA Young Adults Have Busy Calendar

On Wednesday evening, April 6, the members of the Birmingham YMCA Young Adult club had an opportunity to limber up their muscles and have a good time at a roller skating party at the Pontiac rolladium.

In observance of Easter, members of the club will hold a Sunrise Service at Springdale Park, April 10, at 6:30 a.m.

A service project, to be announced, will keep the Co-Ed members busy when they meet April 13 at 8:30 p.m. in the YMCA.

Thousands of people read The Eccentric Classified Ads. So remember, if you want to sell that hard-to-get-rid-of article, advertise it in the Want Ad section of The Birmingham Eccentric.

## Elaime Jones Will Represent YMCA At Paris, France

A release from the State Office of the Michigan YMCA indicates that Miss Elaime Jones of 688 Purdy Street will represent the Birmingham Association of the Detroit YMCA at the World's Conference of the YMCA August 16 through August 24 at Paris, France.

Miss Jones will be a member of the Kitzmeyer tour group being conducted by the travel club of the Y. This group will visit England, Scotland, Belgium, Switzerland, Germany, Holland, Italy and other spots before boarding the plane for the return flight.

The tour leaves New York on Saturday, July 23, and returns on Friday, August 26.

## Cubs See Racing Film, Sport Cars

A car show was the special feature of Cub Pack B-22's meeting Tuesday, March 29 in the Adams school gymnasium.

Foreign cars and sports cars were lined up on Oakland in front of the school. The cars included the Lincoln that won the Mexican Road race. Other cars were a Ford Thunderbird, an Alfa-Romeo, a Lancia, an MG and a Vedette.

Cubs were given rides in a Chevrolet Corvette and another Thunderbird.

A movie of the Mexican Road race was shown at the meeting.

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## LEGAL NOTICES

Charles W. Blumens, Atty., 207 Washok Bldg., Birmingham

STATE OF MICHIGAN - The Probate Court for the County of Oakland.

JANET LOUISE MURPHY, A Minor. At a session of said Court held in the County of Oakland, Michigan, on the 16th day of March, 1955.

Present: Honorable Arthur E. Moore, Judge of Probate.

Murphy has filed in said Court a petition for appointment of guardian of the person of said minor.

Notice is hereby given that a hearing shall be held on said petition on the 21st day of April, 1955, at 9 o'clock in the forenoon at said Court.

And it is further ordered, that public notice thereof be given by publication of a copy of this order, once each week for three successive weeks previous to said day of hearing in the Birmingham Eccentric, a newspaper printed and circulated in said County, and that a copy be given to John Murphy, father of said minor, by registered mail with return receipt demanded addressed to the last known address.

ARTHUR E. MOORE, Judge of Probate.

STATE OF MICHIGAN in the Circuit Court for the County of Oakland, in Chancery.

NANCY A. MASSEY Plaintiff, vs. JIM B. MASSEY Defendant.

ORDER FOR APPEARANCE.

At a session of said Court held at Courthouse in the City of Pontiac, Oakland County, Michigan, this 21st day of March, 1955.

Present: Hon. Frank L. Doty, Circuit Judge.

In the above entitled cause it appearing that the defendant, Jim B. Massey, is not a resident of this State but is believed to reside within the State of Arkansas, his last known address being Danville, Arkansas. Therefore on motion of John C. Emery Jr., attorney for Plaintiff:

IT IS ORDERED that the defendant enter his appearance in said cause on or before the 21st day of April, 1955.

LENN D. ALLEN, County Clerk by BENNETH E. VANDERLIND, Deputy.

Witness my hand and seal of said Court at Pontiac, Michigan, this 21st day of March, 1955.

STATE OF MICHIGAN - The Probate Court for the County of Oakland.

In the Matter of the Estate of FRANK ARMSTRONG, Deceased.

At a session of said Court, held at the Probate Court in the City of Pontiac, Michigan, on the 21st day of March, 1955.

Present: Honorable Arthur E. Moore, Judge of Probate.

Order appointing time for hearing notice is hereby given and it is hereby ordered that the time and place for hearing on claims against the above estate be on the 1st day of June 1955, at nine o'clock in the forenoon at the Probate Court in the Court House at the City of Pontiac, Michigan.

All creditors and claimants against the above estate are further notified and ordered and prior to said date said hearing to file their claims therewith with the Court and with the fiduciary of this estate, together with containing affidavits reasonably to inform the fiduciary of the nature and amount of their claims.

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